

```

EEEEEEEEEEEEEEEEEE DDDDDDDDDDDDDDD FFFFFFFFFFFFFF
EEEEEEEEEEEEEEEEEE DDDDDDDDDDDDDDD FFFFFFFFFFFFFF
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```

[illegible]

```

LL               IIIIII               SSSSSSSS
LL               IIIIII               SSSSSSSS
LL               II                   SS
LL               II                   SS
LL               II                   SS
LL               II                   SS
LL               II                   SSSSSS
LL               II                   SSSSSS
LL               II                   SS
LL               II                   SS
LL               II                   SS
LL               II                   SS
LLLLLLLLLLLLLL  IIIIII               SSSSSSSS
LLLLLLLLLLLLLL  IIIIII               SSSSSSSS

```

[illegible]

[IDENT ('V04-000'),

(++

```
*****
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*****
```

FACILITY: VAX/VMS EDF (EDIT/FDL) UTILITY

ABSTRACT: This facility is used to create, modify, and optimize
FDL specification files.

ENVIRONMENT: NATIVE/USER MODE

AUTHOR: Ken F. Henderson Jr.

CREATION DATE: 27-Mar-1981

MODIFIED BY:

V03-08	KFH0008	Ken Henderson	10 Sep 1983
	Support for named UICs		
V03-007	KFH0007	Ken Henderson	8 Aug 1983
	Changes for seperate compilation.		
V03-006	KFH0006	Ken Henderson	30 Jul 1983
	Added never_RU_journal.		
V03-005	KFH0005	Ken Henderson	14 Apr 1983
	Fixed SHOW_PRIMARY_SECTION routine.		
	Fixed CHECK_QUOTES routine.		
V03-004	KFH0004	Ken Henderson	22 Nov 1982
	Removed the EDF\$_INTSWERR numbers.		

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- 3 -

V03-003 KFH0003 Ken Henderson
Added CHECK_QUOTES routine.

V03-002 KFH0002 Ken Henderson
Reordered the EDF\$_INTSWERR numbers.

V03-001 KFH0001 Ken Henderson
Modified SHOW_CURRENT to fix FT2 QARS
440,449

6 14
16-Sep-1984 01:05:40
5-Sep-1984 13:38:00

VAX-11 Pascal V2.4-277 Page
DISK\$VMSMASTER:[EDF.SRC]EDFSHOW.PAS;1 (1)

Page 2

[illegible]

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```
ENVIRONMENT ('LIB$:EDFSHOW'),
INHERIT (
'SYSSLIBRARY:STARLET',
'SHRLIB$:FDLPARDEF',
'LIB$:EDFSDLMSG',
'LIB$:EDFSTRUCT',
'LIB$:EDFCONST',
'LIB$:EDFTYPE',
'LIB$:EDFVAR',
'LIB$:EDFEXTERN',
'LIB$:EDFCHF',
'LIB$:EDFUTIL',
'LIB$:EDFASK'
) ]
MODULE EDFSHOW (INPUT,OUTPUT):
```

H 14
16-Sep-1984 01:05:40
5-Sep-1984 13:38:00

VAX-11 Pascal V2.4-277 Page 3
DISK\$VMSMASTER:[EDF.SRC]EDFSHOW.PAS;1 (2)

[illegible]

```
0090      ( ++
0091
0092      CHECK_QUOTES -- Bracket the output string with quotes.
0093
0094      This routine scans for quotes that bracket a string-valued output secondary.
0095      If they aren't there, it puts on "'s. If there is a '"' in the string, it puts
0096      on "'s. If there are both in the string, then it puts on "'s (doubling embedded
0097      "'s).
0098
0099      CALLING SEQUENCE:
0100
0101      CHECK_QUOTES (DESC);
0102
0103      INPUT PARAMETERS:
0104
0105      DESC - the character string to scan.
0106
0107      IMPLICIT INPUTS:
0108
0109      APOSTROPHE
0110
0111      OUTPUT PARAMETERS:
0112
0113      DESC - the scanned character string
0114
0115      IMPLICIT OUTPUTS:
0116
0117      none
0118
0119      ROUTINES CALLED:
0120
0121      none
0122
0123      ROUTINE VALUE:
0124
0125      none
0126
0127      SIGNALS:
0128
0129      none
0130
0131      SIDE EFFECTS:
0132
0133      none
0134
0135      -- }
```

```
0137 PROCEDURE CHECK_QUOTES (VAR DESC: DESCRIPTOR);
0138
0139 VAR
0140     SCAN_INDEX : INTEGER;
0141     INDEX       : INTEGER;
0142     QUOTE_FOUND : BOOLEAN;
0143     APOST_FOUND : BOOLEAN;
0144     QCHAR       : CHAR;
0145     QUOTES      : CHAR;
0146
0147 BEGIN
0148     QUOTES := CHR (34);
0149
0150     { +
0151     Non-null strings are the most interesting.
0152     - }
0153     IF DESC.DSC$W_LENGTH <> 0 THEN
0154         BEGIN
0155             { +
0156             Don't disturb a string that already is enclosed in (')s or (")s.
0157             - }
0158             IF NOT (
0159                 (DESC.DSC$A_POINTER^[1] = APOSTROPHE)
0160                 AND
0161                 (DESC.DSC$A_POINTER^[DESC.DSC$W_LENGTH] = APOSTROPHE)
0162             )
0163             OR
0164             (
0165                 (DESC.DSC$A_POINTER^[1] = QUOTES)
0166                 AND
0167                 (DESC.DSC$A_POINTER^[DESC.DSC$W_LENGTH] = QUOTES)
0168             )
0169             THEN
0170                 BEGIN
0171                     { +
0172                     First, see if there are any nasty embedded quotes or apostrophes.
0173                     - }
0174                     QUOTE_FOUND := FALSE;
0175                     APOST_FOUND := FALSE;
0176
0177                     FOR INDEX := 1 TO DESC.DSC$W_LENGTH DO
0178                         BEGIN
0179                             IF DESC.DSC$A_POINTER^[INDEX] = QUOTES THEN
0180                                 QUOTE_FOUND := TRUE;
0181
0182                             IF DESC.DSC$A_POINTER^[INDEX] = APOSTROPHE THEN
0183                                 APOST_FOUND := TRUE;
```



```
0194 END;
0195 { +
0196 Just bracket the string with quotes if no quotes are found,
0197 or if just bracket it with apostrophes if no apostrophes are
0198 found.
0199 - }
0200 IF QUOTE_FOUND THEN
0201 BEGIN
0202     IF APOST_FOUND THEN
0203     BEGIN
0204         SCAN_INDEX := DESC.DSC$W_LENGTH;
0205         REPEAT
0206             IF DESC.DSC$A_POINTER^[SCAN_INDEX] = QUOTES THEN
0207             BEGIN
0208                 FOR INDEX := DESC.DSC$W_LENGTH DOWNTO SCAN_INDEX DO
0209                     DESC.DSC$A_POINTER^[INDEX+1]
0210                     := DESC.DSC$A_POINTER^[INDEX];
0211                 IF DESC.DSC$W_LENGTH < 254 THEN
0212                     DESC.DSC$W_LENGTH := DESC.DSC$W_LENGTH + 1;
0213             END;
0214             SCAN_INDEX := SCAN_INDEX - 1;
0215         UNTIL SCAN_INDEX < 1;
0216         QCHAR := QUOTES;
0217     END { IF TRUE APOST_FOUND (AND QUOTE_FOUND) -YUK }
0218     ELSE
0219     BEGIN
0220         QCHAR := APOSTROPHE;
0221     END; { IF FALSE APOST_FOUND }
0222     END { IF TRUE QUOTE_FOUND }
0223     ELSE
0224     BEGIN
```



```
0251      QCHAR      := QUOTES;
0252
0253  END;      { IF FALSE QUOTE_FOUND }
0254
0255  { +
0256  Shift the string down one char.
0257  - }
0258  FOR INDEX := DESC.DSC$W_LENGTH DOWNT0 1 DO
0259
0260      DESC.DSC$A_POINTER^[INDEX+1] := DESC.DSC$A_POINTER^[INDEX];
0261
0262  { +
0263  Update the length and add the quotes.
0264  - }
0265  DESC.DSC$W_LENGTH := DESC.DSC$W_LENGTH + 2;
0266  DESC.DSC$A_POINTER^[1] := QCHAR;
0267  DESC.DSC$A_POINTER^[DESC.DSC$W_LENGTH] := QCHAR;
0268
0269  END;      { IF NOT (ALREADY QUOTED) }
0270
0271  END      { IF TRUE DESC.DSC$W_LENGTH <> 0 }
0272
0273  ELSE
0274
0275  BEGIN
0276
0277      STR$TRIM (DESC.EMPTY_STRING);
0278
0279  END;      { IF FALSE DESC.DSC$W_LENGTH <> 0 }
0280
0281  END;      { CHECK_QUOTES }
```

```
0283      ( ++
0284
0285      SHOW_PRIMARY -- Output the text string for the primary.
0286
0287      This routine outputs the primary keyword.
0288
0289      CALLING SEQUENCE:
0290
0291      SHOW_PRIMARY;
0292
0293      INPUT PARAMETERS:
0294
0295      none
0296
0297      IMPLICIT INPUTS:
0298
0299      DEF CURRENT
0300      PRIMARY_WIDTH
0301
0302      OUTPUT PARAMETERS:
0303
0304      none
0305
0306      IMPLICIT OUTPUTS:
0307
0308      FDL_DEST
0309
0310      ROUTINES CALLED:
0311
0312      none
0313
0314      ROUTINE VALUE:
0315
0316      none
0317
0318      SIGNALS:
0319
0320      none
0321
0322      SIDE EFFECTS:
0323
0324      The text is shown on the terminal or put in the file. Wherever FDL_DEST points.
0325
0326      -- )
```

```
0328 PROCEDURE SHOW_PRIMARY;
0329
0330 VAR
0331     TEMP_PRI      : PRIMARY_TYPE;
0332
0333 BEGIN
0334
0335     WITH DEF_CURRENT^ DO
0336     BEGIN
0337
0338         { +
0339         Fetch the primary we're showing.
0340         - }
0341         TEMP_PRI      := PRIMARY;
0342
0343         { +
0344         Output it, using the correct width.
0345         - }
0346         WRITE (FDL_DEST,TEMP_PRI:PRIMARY_WIDTH[TEMP_PRI]);
0347
0348         { +
0349         If it's one with a PRINUM, put that out too.
0350         - }
0351         IF TEMP_PRI IN [ ANALYSIS_OF_AREA, ANALYSIS_OF_KEY, AREA, KEY ] THEN
0352             WRITE (FDL_DEST,' ',PRINUM:NUM_LEN(PRINUM));
0353
0354         { +
0355         If it's one with a string value, put that out too.
0356         - }
0357         IF TEMP_PRI IN [ IDENT, TITLE ] THEN
0358             BEGIN
0359                 CHECK_QUOTES (STRING);
0360                 IF (STRING.DSC$W_LENGTH > 0) THEN
0361                     WRITE (FDL_DEST,' ',STRING.DSC$A_POINTER^:
0362                         STRING.DSC$W_LENGTH);
0363             END;
0364
0365     END;
0366
0367 END;      ( WITH DEF_CURRENT^ )
0368
0369 END;      ( SHOW_PRIMARY )
0370
0371
0372
0373
0374
```

```
0376 { ++
0377
0378 SHOW_SECONDARY -- Output a text string for the secondary keyword.
0379
0380 This routine outputs a secondary keyword.
0381
0382 CALLING SEQUENCE:
0383
0384 SHOW_SECONDARY;
0385
0386 INPUT PARAMETERS:
0387
0388 none
0389
0390 IMPLICIT INPUTS:
0391
0392 DEF CURRENT
0393 SECONDARY_WIDTH
0394
0395 OUTPUT PARAMETERS:
0396
0397 none
0398
0399 IMPLICIT OUTPUTS:
0400
0401 FDL_DEST
0402
0403 ROUTINES CALLED:
0404
0405 none
0406
0407 ROUTINE VALUE:
0408
0409 none
0410
0411 SIGNALS:
0412
0413 none
0414
0415 SIDE EFFECTS:
0416
0417 The secondary keyword is put into the file or onto the terminal. (FDL_DEST)
0418
0419 -- }
```



```
0421 PROCEDURE SHOW_SECONDARY;  
0422  
0423 VAR  
0424     TEMP_SEC      : SECONDARY_TYPE;  
0425  
0426 BEGIN  
0427     WITH DEF_CURRENT^ DO  
0428  
0429     BEGIN  
0430  
0431         { +  
0432         Fetch the secondary.  
0433         - }  
0434         TEMP_SEC      := SECONDARY;  
0435  
0436         { +  
0437         Output the secondary if it's a simply structured one.  
0438         - }  
0439         IF NOT ( TEMP_SEC IN [ SEG_LENGTH, SEG_POSITION, SEG_TYPE ] ) THEN  
0440  
0441         BEGIN  
0442  
0443             WRITE (FDL_DEST,' ',TEMP_SEC:SECONDARY_WIDTH[TEMP_SEC]);  
0444  
0445             { +  
0446             Put out extra tabs to compensate for short secondaries.  
0447             - }  
0448             IF (   
0449             (TEMP_SEC = POSITIONS)  
0450             AND  
0451             (NOT (QUALIFIER IN [ FDL$C_ANYPOS, FDL$C_NOPOS ]))  
0452             ) THEN  
0453  
0454                 WRITE (FDL_DEST,' ')  
0455  
0456             ELSE IF SECONDARY_WIDTH[TEMP_SEC] < 8 THEN  
0457  
0458                 WRITE (FDL_DEST,' ')  
0459  
0460             ELSE IF SECONDARY_WIDTH[TEMP_SEC] < 16 THEN  
0461  
0462                 WRITE (FDL_DEST,' ');  
0463  
0464             END  
0465         ELSE  
0466  
0467             { +  
0468             Here for the complicated secondaries: SEGn_xxx  
0469             - }  
0470             BEGIN  
0471  
0472                 IF TEMP_SEC = SEG_LENGTH THEN  
0473  
0474                     WRITE (FDL_DEST,'      SEG',SECNUM:1,'_LENGTH ');  
0475  
0476  
0477
```

```
0478 { +
0479 Now do the same for the SEGn_POSITION secondary.
0480 - }
0481 IF TEMP_SEC = SEG_POSITION THEN
0482     WRITE (FDL_DEST, '      SEG', SECNUM:1, '_POSITION      ');
0483
0484 { +
0485 Ditto for SEGn_TYPE.
0486 - }
0487 IF TEMP_SEC = SEG_TYPE THEN
0488     WRITE (FDL_DEST, '      TYPE      ');
0489
0490
0491 { +
0492 SEGn_TYPE will NOT be supported until after version V3B
0493 - }
0494
0495 {
0496     WRITE (FDL_DEST, '      SEG', SECNUM:1, '_TYPE      '); }
0497
0498     END;
0499
0500     END; { WITH DEF_CURRENT^ }
0501
0502 END; { SHOW_SECONDARY }
```

```
0504      ( ++
0505
0506      SHOW_QUALIFIER -- Output a text string for the qualifier keyword.
0507
0508      This routine outputs the qualifier keyword.
0509
0510      CALLING SEQUENCE:
0511
0512      SHOW_QUALIFIER;
0513
0514      INPUT PARAMETERS:
0515
0516      none
0517
0518      IMPLICIT INPUTS:
0519
0520      DEF_CURRENT
0521
0522      OUTPUT PARAMETERS:
0523
0524      none
0525
0526      IMPLICIT OUTPUTS:
0527
0528      FDL_DEST
0529
0530      ROUTINES CALLED:
0531
0532      none
0533
0534      ROUTINE VALUE:
0535
0536      none
0537
0538      SIGNALS:
0539
0540      none
0541
0542      SIDE EFFECTS:
0543
0544      The keyword is put into the file or onto the terminal. (FDL_DEST)
0545
0546      -- }
```

0548 PROCEDURE SHOW_QUALIFIER;

0549 BEGIN

0550 (+
0551 Output the qualifiers.
0552 -)

0553 CASE DEF_CURRENT^.QUALIFIER OF

0554 FDLSC_ANYPOS :	WRITE (FDL_DEST, 'any_cylinder');
0555 FDLSC_CLUSPOS :	WRITE (FDL_DEST, 'cluster');
0556 FDLSC_CYLPOS :	WRITE (FDL_DEST, 'cylinder');
0557 FDLSC_FIDPOS :	WRITE (FDL_DEST, 'file_ID');
0558 FDLSC_FNMPOS :	WRITE (FDL_DEST, 'file_name');
0559 FDLSC_LOGPOS :	WRITE (FDL_DEST, 'logical');
0560 FDLSC_VIRPOS :	WRITE (FDL_DEST, 'virtual');
0561 FDLSC_NOPOS,	
0562 FDLSC_NONE :	WRITE (FDL_DEST, 'none');
0563 FDLSC_IDX :	WRITE (FDL_DEST, 'indexed');
0564 FDLSC_REL :	WRITE (FDL_DEST, 'relative');
0565 FDLSC_SEQ :	WRITE (FDL_DEST, 'sequential');
0566 FDLSC_IF_IN :	WRITE (FDL_DEST, 'if_in_recovery_unit');
0567 FDLSC_NE :	WRITE (FDL_DEST, 'necessary_to_write');
0568 FDLSC_NEVER :	WRITE (FDL_DEST, 'never_RU_Journal');
0569 FDLSC_CR :	WRITE (FDL_DEST, 'carriage_return');
0570 FDLSC_FTN :	WRITE (FDL_DEST, 'FORTRAN');
0571 FDLSC_PRINT :	WRITE (FDL_DEST, 'print');
0572 FDLSC_FIX :	WRITE (FDL_DEST, 'fixed');
0573 FDLSC_STM :	WRITE (FDL_DEST, 'stream');
0574 FDLSC_STMCR :	WRITE (FDL_DEST, 'stream_CR');
0575 FDLSC_STMLF :	WRITE (FDL_DEST, 'stream_LF');
0576 FDLSC_UDF :	WRITE (FDL_DEST, 'undefined');
0577 FDLSC_VAR :	WRITE (FDL_DEST, 'variable');
0578 FDLSC_VFC :	WRITE (FDL_DEST, 'VFC');
0579 FDLSC_BN2 :	WRITE (FDL_DEST, 'bin2');
0580 FDLSC_BN4 :	WRITE (FDL_DEST, 'bin4');
0581 FDLSC_BN8 :	WRITE (FDL_DEST, 'bin8');
0582 FDLSC_PAC :	WRITE (FDL_DEST, 'decimal');
0583 FDLSC_IN2 :	WRITE (FDL_DEST, 'int2');
0584 FDLSC_IN4 :	WRITE (FDL_DEST, 'int4');
0585 FDLSC_IN8 :	WRITE (FDL_DEST, 'int8');
0586 FDLSC_STG :	WRITE (FDL_DEST, 'string');
0587 FDLSC_IAS :	WRITE (FDL_DEST, 'IAS');
0588 FDLSC_RSTS :	WRITE (FDL_DEST, 'RSTS/E');
0589 FDLSC_M :	WRITE (FDL_DEST, 'RSX-11M');
0590 FDLSC_MPLUS :	WRITE (FDL_DEST, 'RSX-11M-PLUS');
0591 FDLSC_RT :	WRITE (FDL_DEST, 'RT-11');
0592 FDLSC_TRAX :	WRITE (FDL_DEST, 'TRAX-11');
0593 FDLSC_VMS :	WRITE (FDL_DEST, 'VAX/VMS');

0594 OTHERWISE

0595 (NULL-STATEMENT);

0600 END; (CASE)

0601 END; (SHOW_QUALIFIER)

0602

0603

0604


```
0606 { ++
0607
0608 SHOW_CURRENT -- Display (or output) the current line_object.
0609
0610 This routine outputs the textual representation of the line_object pointed
0611 to by DEF_HEAD.
0612
0613 CALLING SEQUENCE:
0614
0615 SHOW_CURRENT (PLUS_VALUE);
0616
0617 INPUT PARAMETERS:
0618
0619 none
0620
0621 IMPLICIT INPUTS:
0622
0623 DEF_CURRENT
0624 DEF_IS_TERMINAL
0625 LINES_PER_PAGE
0626
0627 OUTPUT PARAMETERS:
0628
0629 none
0630
0631 IMPLICIT OUTPUTS:
0632
0633 FDL_DEST
0634
0635 ROUTINES CALLED:
0636
0637 SHOW_PRIMARY
0638 SHOW_SECONDARY
0639 SHOW_QUALIFIER
0640 CLEAR
0641 LIB$SIGNAL
0642
0643 ROUTINE VALUE:
0644
0645 none
0646
0647 SIGNALS:
0648
0649
0650 SIDE EFFECTS:
0651
0652 none
0653
0654 -- }
```

```
0656 PROCEDURE SHOW_CURRENT (PLUS_VALUE : BOOLEAN);
0657
0658 VAR
0659     RETLEN      : [VOLATILE]$WORD;
0660
0661     PROCEDURE SHOW_PROT (PROTECTION : CTRL_ARRAY; FIELD_OFFSET : INTEGER);
0662
0663     BEGIN
0664         IF PROTECTION[FIELD_OFFSET+EDF$V_NOREAD] THEN
0665             WRITE (FDL_DEST,'R');
0666
0667         IF PROTECTION[FIELD_OFFSET+EDF$V_NOWRITE] THEN
0668             WRITE (FDL_DEST,'W');
0669
0670         IF PROTECTION[FIELD_OFFSET+EDF$V_NOEXE] THEN
0671             WRITE (FDL_DEST,'E');
0672
0673         IF PROTECTION[FIELD_OFFSET+EDF$V_NODEL] THEN
0674             WRITE (FDL_DEST,'D');
0675
0676     END;      { SHOW_PROT }
0677
0678 BEGIN
0679     { +
0680     If it's going to the terminal, shift it.
0681     - }
0682     IF DEST_IS_TERMINAL THEN
0683         WRITE (FDL_DEST,SHIFT);
0684
0685     { +
0686     Write to FDL_DEST, according to the type of object it is.
0687     - }
0688     CASE DEF_CURRENT^.OBJECT_TYPE OF
0689
0690         PRI :
0691
0692         WITH DEF_CURRENT^ DO
0693
0694             BEGIN
0695
0696                 { +
0697                 Output the primary.
0698                 - }
0699                 SHOW_PRIMARY;
0700
0701                 { +
0702                 Show only the primary if wanted.
0703                 - }
0704                 IF PLUS_VALUE THEN
```

```
0713 { +
0714 If it has an end-of-line comment on it, output that also.
0715 - }
0716 IF (COMMENT.DSC$W_LENGTH > 0) THEN
0717     WRITE (FDL_DEST, ' ', COMMENT.DSC$A_POINTER^:
0718           COMMENT.DSC$W_LENGTH);
0719
0720 { +
0721 This actually does the Q10.
0722 - }
0723 WRITELN (FDL_DEST);
0724
0725 END; { PRI }
0726
0727 SEC :
0728
0729 WITH DEF_CURRENT^ DO
0730 BEGIN
0731     { +
0732     Output the secondary.
0733     - }
0734     SHOW_SECONDARY;
0735
0736     { +
0737     Don't show the value unless wanted.
0738     - }
0739     IF PLUS_VALUE THEN
0740     BEGIN
0741         { +
0742         If it's a string valued secondary, put the string out.
0743         - }
0744         IF SEC_TYPE[SECONDARY].STR THEN
0745         BEGIN
0746             CHECK_QUOTES (STRING);
0747             IF (STRING.DSC$W_LENGTH > 0) THEN
0748             BEGIN
0749                 WRITE (FDL_DEST, ' ', STRING.DSC$A_POINTER^:
0750                       STRING.DSC$W_LENGTH);
0751             END;
0752         END;
0753
0754         { +
0755         If it's a qualifier valued secondary, put the qualifier out.
0756         - }
0757         IF SEC_TYPE[SECONDARY].QUAL THEN
0758         BEGIN
0759             SHOW_QUALIFIER;
0760         END;
0761     END;
0762 { +
0763
```

If it's a number valued secondary, put the number out.

-)

IF SEC_TYPE[SECONDARY].NUM THEN

{ +

Show the number.

-)

WRITE (FDL_DEST, ' ', NUMBER:NUM_LEN(NUMBER));

{ +

If it's a boolean valued secondary, put YES or NO out.

-)

IF SEC_TYPE[SECONDARY].SW THEN

IF SWITCH THEN

WRITE (FDL_DEST, ' yes')

ELSE

WRITE (FDL_DEST, ' no');

IF (

(SECONDARY = NULL_VALUE)

OR

(SECONDARY = MT_PROTECTION)

) THEN

BEGIN

IF (

(NUMBER < %X20) { SPACE }

OR

(NUMBER > %X7E) { " }

) THEN

WRITE (FDL_DEST, ' ', NUMBER:NUM_LEN(NUMBER))

ELSE

WRITE (FDL_DEST, ' ', CHR(NUMBER), '');

END: { IF SECONDARY = NULL_VALUE OR MT_PROTECTION }

{ +

Area Position is a special case.

-)

IF SECONDARY = POSITIONS THEN

BEGIN

SHOW_QUALIFIER;

IF (

QUALIFIER IN [FDL\$C_CYLPOS, FDL\$C_LOGPOS, FDL\$C_VIRPOS, FDL\$C_CLUSPOS]

) THEN

0770
0771
0772
0773
0774
0775
0776
0777
0778
0779
0780
0781
0782
0783
0784
0785
0786
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0788
0789
0790
0791
0792
0793
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0796
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0798
0799
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0801
0802
0803
0804
0805
0806
0807
0808
0809
0810
0811
0812
0813
0814
0815
0816
0817
0818
0819
0820
0821
0822
0823
0824
0825
0826


```
0827      { +
0828      Show the number.
0829      - }
0830      WRITE (FDL_DEST, '          ', NUMBER:NUM_LEN(NUMBER))
0831
0832  ELSE
0833
0834  BEGIN
0835
0836      CASE QUALIFIER OF
0837
0838          FDL$C_FIDPOS :
0839
0840              BEGIN
0841
0842                  WRITE (FDL_DEST,
0843                        '          ', FID1:NUM_LEN(FID1), ' ',
0844                        FID2:NUM_LEN(FID2), ' ',
0845                        FID3:NUM_LEN(FID3), ' ');
0846
0847                  END;          { FILE_ID }
0848
0849          FDL$C_FNMPOS :
0850
0851              BEGIN
0852
0853                  CHECK_QUOTES (STRING);
0854
0855                  IF (STRING.DSC$W_LENGTH > 0) THEN
0856
0857                      WRITE (FDL_DEST, '          ', STRING.DSC$A_POINTER^:
0858                            STRING.DSC$W_LENGTH);
0859
0860                      END;          { FILE_NAME }
0861
0862          OTHERWISE
0863
0864              { NULL-STATEMENT } ;
0865
0866          END;          { CASE }
0867
0868      END;          { IF FALSE QUALIFIER IN [ ... ] }
0869
0870  END;          { IF SECONDARY = POSITIONS }
0871
0872  { +
0873  OWNER is a special case.
0874  Use the special FAO directive to format the UIC.
0875  - }
0876  IF (SECONDARY = OWNER) THEN
0877
0878  BEGIN
0879
0880      TEMP_INT2 := OWNER UIC;
0881      $FAO[ ('!'!XI' RETLEN, TEMP_STRING255, TEMP_INT2);
0882      WRITE (FDL_DEST, TEMP_STRING255:RETLEN);
0883
```

```
0884 END;
0885
0886 { +
0887 PROTECTION is also a special case.
0888 - }
0889 IF (SECONDARY = PROTECTION) THEN
0890 BEGIN
0891     WRITE (FDL_DEST, ' (system:');
0892     SHOW_PROT (PROT_MASK, EDF$V_SYS);
0893     WRITE (FDL_DEST, ' owner:');
0894     SHOW_PROT (PROT_MASK, EDF$V_OWN);
0895     WRITE (FDL_DEST, ' group:');
0896     SHOW_PROT (PROT_MASK, EDF$V_GRP);
0897     WRITE (FDL_DEST, ' world:');
0898     SHOW_PROT (PROT_MASK, EDF$V_WLD);
0899     WRITE (FDL_DEST, ')');
0900
0901 END; { IF TRUE SECONDARY = PROTECTION }
0902
0903 { +
0904 If it has an end-of-line comment, put that out too.
0905 - }
0906 IF (COMMENT.DSC$W_LENGTH > 0) THEN
0907     WRITE (FDL_DEST, ' COMMENT.DSC$A_POINTER^:
0908 COMMENT.DSC$W_LENGTH);
0909
0910 { +
0911 This actually does the QIO.
0912 - }
0913 WRITELN (FDL_DEST);
0914
0915 END; { IF PLUS_VALUE }
0916
0917 END; { SEC }
0918
0919 COM :
0920 WITH DEF_CURRENT^ DO
0921 BEGIN
0922     { +
0923     This is a full-line comment. Just output it.
0924     - }
0925     IF (COMMENT.DSC$W_LENGTH > 0) THEN
0926         WRITELN (FDL_DEST, COMMENT.DSC$A_POINTER^:
0927 COMMENT.DSC$W_LENGTH);
0928
0929 END; { COM }
0930
0931 OTHERWISE
0932 { NULL-STATEMENT } ;
0933
0934
0935
0936
0937
0938
0939
0940
```

```
0941      END:          { CASE }
0942
0943      { +
0944      Keep track of the number of lines shown.
0945      - }
0946      LINES_SHOWN := LINES_SHOWN + 1;
0947
0948      IF DEST_IS_TERMINAL THEN
0949      BEGIN
0950
0951          IF DEF_CURRENT^.FORE <> NIL THEN
0952
0953              IF (
0954                  (((LINES_PER_PAGE - EDF$C_HEADROOM) - LINES_SHOWN) < 4)
0955                  AND
0956                  ((DEF_CURRENT^.PRIMARY <> DEF_CURRENT^.FORE^.PRIMARY)
0957                  OR
0958                  (DEF_CURRENT^.PRINUM <> DEF_CURRENT^.FORE^.PRINUM))
0959              ) THEN
0960
0961              BEGIN
0962
0963                  { +
0964                  We're about to output a short primary, reset and
0965                  clear the screen (after the user hits RETURN).
0966                  - }
0967                  LINES_SHOWN := 0;
0968                  CLEAR(PAUSE);
0969
0970              END;
0971
0972          IF (
0973              (LINES_SHOWN >= (LINES_PER_PAGE - EDF$C_HEADROOM))
0974          ) THEN
0975
0976          BEGIN
0977
0978              { +
0979              The counter tripped, reset and clear the screen
0980              (after the user hits RETURN).
0981              - }
0982              LINES_SHOWN := 0;
0983              CLEAR(PAUSE);
0984
0985          END;
0986
0987      END:          { IF DEST_IS_TERMINAL }
0988
0989      END:          { SHOW_CURRENT }
0990
0991
```

```
0993 { ++
0994
0995 GENERATE_FDL -- Routine to output the FDL definition.
0996
0997 This routine outputs the FDL definition.
0998
0999 CALLING SEQUENCE:
1000
1001 GENERATE_FDL;
1002
1003 INPUT PARAMETERS:
1004
1005 none
1006
1007 IMPLICIT INPUTS:
1008
1009 DEF_CURRENT
1010 ANST_REVERSE
1011
1012 OUTPUT PARAMETERS:
1013
1014 none
1015
1016 IMPLICIT OUTPUTS:
1017
1018 FDL_DEST
1019 LINES_SHOWN
1020
1021 ROUTINES CALLED:
1022
1023 CLEAR
1024 SHOW_CURRENT
1025 INCR_CURRENT
1026 LIB$SIGNAL
1027
1028 ROUTINE VALUE:
1029
1030 none
1031
1032 SIGNALS:
1033
1034
1035 SIDE EFFECTS:
1036
1037 none
1038
1039 -- }
```



```

1041 PROCEDURE GENERATE_FDL;
1042
1043 VAR
1044     PREV_PRIMARY      : PRIMARY_TYPE;
1045     PREV_PRINUM       : INTEGER;
1046
1047 BEGIN
1048
1049     { +
1050     Do the Primaries as stored in the Definition Linked List.
1051     - }
1052     DEF_CURRENT := DEF_HEAD;
1053
1054     { +
1055     Setup to keep track of new primaries.
1056     - }
1057     PREV_PRINUM := -1;
1058
1059     { +
1060     Initialize the line counter (incremented in SHOW_CURRENT).
1061     - }
1062     LINES_SHOWN := 0;
1063
1064     { +
1065     Do it, if there is something to show.
1066     - }
1067     IF DEF_CURRENT <> NIL THEN
1068
1069         BEGIN
1070
1071             { +
1072             List isn't empty, cycle through the line_objects and show them.
1073             At least until the end of the list, or until the user types ^Z.
1074             - }
1075
1076             REPEAT
1077
1078                 { +
1079                 Produce the textual version of the Definition Linked List.
1080                 Precede the 1st occurrence of a primary with 2 blank lines.
1081                 - }
1082                 WITH DEF_CURRENT^ DO
1083
1084                     BEGIN
1085
1086                         IF PREV_PRINUM < 0 THEN
1087
1088                             BEGIN
1089
1090                                 { +
1091                                 Initial primary, don't skip lines here, just setup.
1092                                 - }
1093                                 PREV_PRIMARY      := PRIMARY;
1094                                 PREV_PRINUM       := PRINUM;
1095
1096
1097                                 END

```

```
1098
1099
1100
1101
1102
1103      { +
1104      Skip a line if this is a new primary.
1105      - }
1106      IF NOT (
1107      (PREV_PRIMARY = PRIMARY) AND (PREV_PRINUM = PRINUM)
1108      ) THEN
1109      BEGIN;
1110
1111          PREV_PRIMARY      := PRIMARY;
1112          PREV_PRINUM       := PRINUM;
1113
1114          { +
1115          This is a new primary, put out a blank line.
1116          - }
1117          WRITELN (FDL_DEST);
1118          LINES_SHOWN       := LINES_SHOWN + 1;
1119
1120      END;
1121
1122      END;      { IF FALSE PREV_PRINUM >= 0 }
1123
1124      END;      { WITH DEF_CURRENT^ }
1125
1126      SHOW_CURRENT (TRUE);
1127      INCR_CURRENT;
1128
1129      UNTIL DEF_CURRENT = NIL;
1130
1131      END;      { IF FALSE DEF_CURRENT = NIL }
1132
1133      END;      { GENERATE_FDL }
```

```
1135 ( **
1136
1137 VIEW_DEF -- Routine to show the user the Definition Linked List.
1138
1139 This routine will display the definition on the user's terminal.
1140
1141 CALLING SEQUENCE:
1142
1143 VIEW_DEF;
1144
1145 INPUT PARAMETERS:
1146
1147 none
1148
1149 IMPLICIT INPUTS:
1150
1151 SYSS$OUTPUT_NAME
1152 DEF_CURRENT
1153 CONTROL_ZEE_Typed
1154
1155 OUTPUT PARAMETERS:
1156
1157 none
1158
1159 IMPLICIT OUTPUTS:
1160
1161 SYSS$INPUT: the terminal
1162 DEST_IS_TERMINAL
1163
1164 ROUTINES CALLED:
1165
1166 CLEAR
1167 GENERATE_FDL
1168
1169 ROUTINE VALUE:
1170
1171 none
1172
1173 SIGNALS:
1174
1175 none
1176
1177 SIDE EFFECTS:
1178
1179 none
1180
1181 -- }
```

```
1183 PROCEDURE VIEW_DEF;
1184
1185 BEGIN
1186     { +
1187     Erase the user's screen.
1188     - }
1189     CLEAR (SCREEN);
1190
1191     { +
1192     'Open' his terminal and initialize it.
1193     Close it first to avoid conflicts.
1194     - }
1195     DEST_IS_TERMINAL := TRUE;
1196
1197     CLOSE      (FDL_DEST, ERROR := CONTINUE);
1198     OPEN       (FDL_DEST, SYSSOUTPUT_NAME, NEW, RECORD_LENGTH := 252);
1199     REWRITE    (FDL_DEST);
1200
1201     { +
1202     Put the current definition out to the terminal.
1203     - }
1204     GENERATE_FDL;
1205
1206     { +
1207     We're done, close it off.
1208     - }
1209     CLOSE      (FDL_DEST);
1210
1211     { +
1212     Don't clear if the user hit ^Z, or if SHOW_CURRENT had just done a PAUSE.
1213     - }
1214     IF (NOT CONTROL_ZEE_TYPED) AND (LINES_SHOWN <> 0) THEN
1215     BEGIN
1216
1217         WRITELN;
1218         CLEAR (PAUSE);
1219
1220     END;
1221
1222 END; { VIEW_DEF }
```

```
1226 { ++
1227
1228 SHOW_PRIMARY_SECTION -- Display the whole primary section.
1229
1230 This routine outputs the selected primary section to the screen.
1231
1232 CALLING SEQUENCE:
1233
1234 SHOW_PRIMARY_SECTION (TEST);
1235
1236 INPUT PARAMETERS:
1237
1238 TEST
1239
1240 IMPLICIT INPUTS:
1241
1242 FDL_DEST
1243 CONTROL_ZEE_TYPED
1244 DEF_CURRENT
1245 DEF_HEAD
1246
1247 OUTPUT PARAMETERS:
1248
1249 none
1250
1251 IMPLICIT OUTPUTS:
1252
1253 SYSSOUTPUT:
1254 DEF_CURRENT
1255
1256 ROUTINES CALLED:
1257
1258 CLEAR
1259 INCR_CURRENT
1260 SECTION_MATCH
1261
1262 ROUTINE VALUE:
1263
1264 none
1265
1266 SIGNALS:
1267
1268 none
1269
1270 SIDE EFFECTS:
1271
1272 none
1273
1274 -- }
```



```
1276 [GLOBAL] PROCEDURE SHOW_PRIMARY_SECTION (TEST : LINE_OBJECT);
1277
1278 VAR
1279     AT_PRIMARY : BOOLEAN;
1280
1281 BEGIN
1282
1283     { +
1284     Show him that whole primary section.
1285     - }
1286     LINES_SHOWN      := 0;
1287
1288     { +
1289     Step through the whole list.
1290     - }
1291     DEF_CURRENT      := DEF_HEAD;
1292     AT_PRIMARY       := FALSE;
1293
1294     REPEAT
1295
1296         { +
1297         If DEF_CURRENT points to a line_object in that primary, show it.
1298         - }
1299         IF CURRENT_EQ_TEST (TEST,FALSE) THEN
1300
1301             BEGIN
1302
1303                 SHOW_CURRENT (TRUE);
1304                 AT_PRIMARY := TRUE;
1305
1306             END
1307
1308         ELSE
1309
1310             BEGIN
1311
1312                 IF AT_PRIMARY THEN
1313
1314                     DEF_CURRENT      := NIL;
1315
1316                 END;
1317
1318                 { +
1319                 Try the next.
1320                 - }
1321                 INCR_CURRENT;
1322
1323             UNTIL DEF_CURRENT = NIL;
1324
1325             WRITELN (FDL_DEST);
1326
1327     END; { SHOW_PRIMARY_SECTION }
```

```
1329 { ++
1330
1331 SHOW_ALL_PRIMARIES -- Display the existing primary attributes.
1332
1333 This routine outputs the existing primaries on the screen.
1334
1335 CALLING SEQUENCE:
1336
1337 SHOW_ALL_PRIMARIES;
1338
1339 INPUT PARAMETERS:
1340
1341 none
1342
1343 IMPLICIT INPUTS:
1344
1345 FDL_DEST
1346 CONTROL_ZEE_TYPED
1347 DEF_CURRENT
1348 DEF_HEAD
1349
1350 OUTPUT PARAMETERS:
1351
1352 none
1353
1354 IMPLICIT OUTPUTS:
1355
1356 SYS$OUTPUT:
1357 DEF_CURRENT
1358
1359 ROUTINES CALLED:
1360
1361 CLEAR
1362 INCR_CURRENT
1363 SECTION_MATCH
1364
1365 ROUTINE VALUE:
1366
1367 none
1368
1369 SIGNALS:
1370
1371 none
1372
1373 SIDE EFFECTS:
1374
1375 none
1376
1377 -- }
```

```
1379 [GLOBAL] PROCEDURE SHOW_ALL_PRIMARIES;
1380
1381 BEGIN
1382
1383   { +
1384   Show him all the primary attributes.
1385   - }
1386   LINES_SHOWN      := 0;
1387
1388   { +
1389   Step through the whole list.
1390   - }
1391   DEF_CURRENT      := DEF_HEAD;
1392
1393   REPEAT
1394
1395     { +
1396     If DEF_CURRENT points to a line_object that is a primary, show it.
1397     But not the Ident.
1398     - }
1399     IF (
1400       (DEF_CURRENT^.OBJECT_TYPE = PRI)
1401       AND
1402       (DEF_CURRENT^.PRIMARY <> IDENT)
1403     ) THEN
1404
1405       SHOW_CURRENT (TRUE);
1406
1407     { +
1408     Try the next.
1409     - }
1410     INCR_CURRENT;
1411
1412   UNTIL DEF_CURRENT = NIL;
1413
1414   WRITELN (FDL_DEST);
1415
1416 END; { SHOW_ALL_PRIMARIES }
```

```
1418 { ++
1419
1420 SHOW_CUR_PRI_SEC -- Display the line_object pointed to by def_current.
1421
1422 This routine outputs the def_current line_object.
1423
1424 CALLING SEQUENCE:
1425
1426 SHOW_CUR_PRI_SEC;
1427
1428 INPUT PARAMETERS:
1429
1430 none
1431
1432 IMPLICIT INPUTS:
1433
1434 FDL_DEST
1435 CONTROL_ZEE_TYPED
1436 DEF_CURRENT
1437 DEF_HEAD
1438
1439 OUTPUT PARAMETERS:
1440
1441 none
1442
1443 IMPLICIT OUTPUTS:
1444
1445 SYSS$OUTPUT:
1446 DEF_CURRENT
1447
1448 ROUTINES CALLED:
1449
1450 CLEAR
1451 INCR_CURRENT
1452 SECTION_MATCH
1453
1454 ROUTINE VALUE:
1455
1456 none
1457
1458 SIGNALS:
1459
1460 none
1461
1462 SIDE EFFECTS:
1463
1464 none
1465
1466 -- }
```

EDFSHOW
V04-000

Source Listing

K 16
16-Sep-1984 01:05:40
5-Sep-1984 13:38:00

VAX-11 Pascal V2.4-277
DISK\$VMSMASTER:[EDF.SRC]EDFSHOW.PAS;1 (22) Page 32

```
1468 [GLOBAL] PROCEDURE SHOW_CUR_PRI_SEC (PLUS_VALUE : BOOLEAN);
1469
1470 VAR
1471     SAVE_OBJECT_TYPE          : LINE_OBJECT_TYPE;
1472
1473 BEGIN
1474     LINES_SHOWN                := 0;
1475
1476     { +
1477     Now display the 2 versions of the line_object.
1478     All this only works because the primary that a line_object is in
1479     is stored redundantly in all the subsequent secondaries.
1480     - }
1481     SAVE_OBJECT_TYPE           := DEF_CURRENT^.OBJECT_TYPE;
1482
1483     DEF_CURRENT^.OBJECT_TYPE   := PRI;
1484     SHOW_CURRENT (PLUS_VALUE);
1485
1486     IF DEF_CURRENT^.PRIMARY <> TITLE THEN
1487     BEGIN
1488
1489         DEF_CURRENT^.OBJECT_TYPE := SEC;
1490         SHOW_CURRENT (PLUS_VALUE);
1491
1492     END;
1493
1494     DEF_CURRENT^.OBJECT_TYPE    := SAVE_OBJECT_TYPE;
1495
1496 END;    ( SHOW_CUR_PRI_SEC )
1497
1498 END.
1499
1500 ( End of file: SRC$:EDFSHOW.PAS )
1501
```



```
00000068 00000064 00000055 00000010 00000048
0000009D 00000095 00000090 00000080 0000006F
000000BA 000000B6 000000AE 000000A8 000000A2
000000D1 000000CA 000000C2
59 45 50 59 54 5F 59 52 41 4D 49 52 50 0C
52 41 4D 49 52 50 5F 59 4D 4D 55 44 0E
24
53 53 45 43 43 41 06
4C 43 41 03
41 5F 46 4F 5F 53 49 53 59 4C 41 4E 41 10
41 45 52
4B 5F 46 4F 5F 53 49 53 59 4C 41 4E 41 0F
59 45
41 45 52 41 04
54 43 45 4E 4E 4F 43 07
45 54 41 44 04
24 45 4C 49 46 05
54 4E 45 44 49 05
4C 41 4E 52 55 4F 4A 07
59 45 4B 03
24 44 52 4F 43 45 52 07
47 4E 49 52 41 48 53 07
4D 45 54 53 59 53 06
00 45 4C 54 49 54 05
08 38
82 00
00000000 00000000 00000000 00000000
00 00 E0
0000028E 00000284 00000273 00000097 00000264
000002B5 000002AB 000002A0 0000029B 00000296
000002F4 000002DE 000002D3 000002C3 000002B0
00000343 0000033D 00000333 0000031F 0000030D
0000039F 0000038B 00000376 0000036A 00000357
000003F5 000003E1 000003D2 000003C2 000003B0
00000442 0000042F 00000423 00000416 00000401
00000475 0000046C 0000045F 00000457 0000044D
000004AE 000004A2 00000495 00000489 00000481
000004F8 000004EC 000004E2 000004D1 000004BF
00000547 00000535 00000524 00000513 00000505
0000058B 0000057C 0000056C 00000561 0000054E
000005D8 000005CE 000005BE 000005AA 0000059A
00000626 00000616 0000060C 000005FB 000005EC
00000658 00000651 00000645 0000063B 00000633
0000069C 00000693 00000686 0000067A 00000666
000006DD 000006CD 0000068E 000006B1 000006A7
00000729 0000071B 00000707 000006FD 000006ED
00000775 00000765 00000756 00000748 0000073D
000007BA 000007A6 0000079D 00000798 00000787
000007F9 000007EE 000007DF 000007D9 000007CC
00000837 0000082D 0000081D 0000080D 00000804
0000087A 0000086E 00000862 00000853 00000841
```

```
00000 .TITLE EDFSHOW
00014 .IDENT \V04-000\
00028
0003C
00048
00055 .ASCII <12>\PRIMARY TYPE\
00063 .ASCII <14>\DUMMY_PRIMARY$
00064 .ASCII <6>\ACCESS\
0006B .ASCII <3>\ACL\
0006F .ASCII <16>\ANALYSIS_OF_AREA\
0007D
00080 .ASCII <15>\ANALYSIS_OF_KEY\
0008E
00090 .ASCII <4>\AREA\
00095 .ASCII <7>\CONNECT\
0009D .ASCII <4>\DATE\
000A2 .ASCII <5>\FILES\
000AB .ASCII <5>\IDENT\
000AE .ASCII <7>\JOURNAL\
000B6 .ASCII <3>\KEY\
000BA .ASCII <7>\RECORDS\
000C2 .ASCII <7>\SHARING\
000CA .ASCII <6>\SYSTEM\
000D1 .ASCII <5>\TITLE\<0>
000D8 C.AAB: .BYTE ^X38,8
000DA C.AAC: .BYTE 0,^X82
000DC C.AAD: .LONG 0,0,0,0
000EC .BYTE ^XE0,0,0
000EF .BLKB 1
000F0 C.AAE: .LONG 612,151,627,644,654,662,667,672,683,693,-
00104 701,707,723,734,756,781,799,819,829,835,-
00118 855,874,886,907,927,944,962,978,993,1013,-
0012C 1025,1046,1059,1071,1090,1101,1111,1119,-
00140 1132,1141,1153,1161,1173,1186,1198,1215,-
00154 1233,1250,1260,1272,1285,1299,1316,1333,-
00168 1351,1358,1377,1388,1404,1419,1434,1450,-
0017C 1470,1486,1496,1516,1531,1548,1558,1574,-
00190 1587,1595,1605,1617,1627,1638,1658,1670,-
001A4 1683,1692,1703,1713,1726,1741,1757,1773,-
001B8 1789,1799,1819,1833,1853,1864,1878,1893,-
001CC 1909,1927,1944,1949,1958,1978,1996,2009,-
001E0 2015,2030,2041,2052,2061,2077,2093,2103,-
001F4 2113,2131,2146,2158,2170,2182,2193,2205,-
00208 2216,2229,2241,2255,2263,2273,2283,2304,-
0021C 2328,2339,2350,2368,2379,2397,2403,2412,-
00230 2423,2432,2443,2456
00244
00258
0026C
00280
00294
002AB
```

		000008B5	000008A8	0000089D	00000891	00000886	
		000008EB	000008E1	000008D7	000008CF	000008C1	
		00000940	0000092E	00000923	00000918	00000900	
		00000977	0000096C	00000963	0000095D	0000094B	
					0000098B	00000980	
		000009D7	000009D0	000009BD	000009AC	000009A1	
		000009FC	000009F3	000009E7	000009E3	000009DC	
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							10
							24
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							07
							04
							04
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							0F
							43
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							4F
							11
							4F
							13
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							14
							43
							13
							5F
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							11
							4E
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002D0
002E4
002F8
0030C
00314
00328
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00350
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0037A
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003BF
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004CD
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004ED
004FB
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2547,2556,2560,2567,2582,2589,2596

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.ASCII <7>\DELETES\
.ASCII <4>\GETS\
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.ASCII <7>\UPDATES\
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.ASCII <12>\BUCKET_SIZES\
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		45	4C	49	46	5F	46	4F	5F	44	4E	45	0B
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4F	43	5F	4B	43	4F	4C	42	49	54	4C	55	4D	10
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0054B	.ASCII	<12>\ASYNCHRONOUS\
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0056D	.ASCII	<7>\CONTEXT\
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005CB		
005CE	.ASCII	<9>\KEY_LIMIT\
005D8	.ASCII	<11>\LOCATE_MODE\
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005F1	.ASCII	<13>\LOCK_ON_WRITE\
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0061E		
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0062F		
00633	.ASCII	<6>\NOLOCK\
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0064D	.ASCII	<10>\READ_AHEAD\
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006AA	.ASCII	<15>\TT_UPCASE_INPUT\
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006BA	.ASCII	<9>\TT_PROMPT\
006C4	.ASCII	<19>\TT_PURGE_TYPE_AHEAD\
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006E6		
006E7	.ASCII	<16>\TT_READ_NOFILTER\
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00702	.ASCII	<15>\WAIT_FOR_RECORD\
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0071F	.ASCII	<7>\BACKUP\
00727	.ASCII	<9>\CREATIONS\

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007B9	.ASCII	<15>\DELETE_ON_CLOSE\
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007C9	.ASCII	<15>\DIRECTORY_ENTRY\
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007D9	.ASCII	<15>\ERASE_ON_DELETE\
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007E9	.ASCII	<9>\EXTENSION\
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00829	.ASCII	<10>\MT_NOT_EOF\
00834	.ASCII	<13>\MT_PROTECTION\
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00851	.ASCII	<15>\MT_CLOSE_REWIND\
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00861	.ASCII	<17>\MAX_RECORD_NUMBER\
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00873	.ASCII	<16>\MAXIMIZE_VERSION\
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00892	.ASCII	<19>\NON_FILE_STRUCTURED\
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008A6	.ASCII	<17>\OUTPUT_FILE_PARSE\
008B4		
008B8	.ASCII	<12>\ORGANIZATION\
008C5	.ASCII	<5>\OWNER\
008CB	.ASCII	<14>\PRINT_ON_CLOSE\
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008DA	.ASCII	<10>\PROTECTION\
008E5	.ASCII	<10>\READ_CHECK\
008F0	.ASCII	<8>\REVISION\
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0093F	.ASCII	<14>\USER_FILE_OPEN\

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0097D .ASCII <11>\AUDIT-TRAIL\
00989 .ASCII <10>\AUDIT-NAME\
00994 .ASCII <12>\BEFORE_IMAGE\
009A1 .ASCII <11>\BEFORE-NAME\
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009BB .ASCII <7>\CHANGES\
009C3 .ASCII <9>\DATA_AREA\
009CD .ASCII <9>\DATA-FILL\
009D7 .ASCII <20>\DATA_KEY_COMPRESSION\
009E5
009EC .ASCII <23>\DATA_RECORD_COMPRESSION\
009FA
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00A28
00A2C .ASCII <10>\INDEX_FILL\
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00A77 .ASCII <12>\SEG-POSITION\
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00AA9 .ASCII <18>\CONTROL_FIELD_SIZE\
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00AD3 .ASCII <11>\MULTISTREAM\
00ADF .ASCII <8>\PROHIBIT\
00AEB .ASCII <3>\PUT\
00AEC .ASCII <6>\UPDATE\
00AF3 .ASCII <14>\USER_INTERLOCK\
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00 61 6E 5F 65 6C 69 66
00 6C 61 63 69 67 6F 6C
00 6C 61 75 74 72 69 76
00 00 00 65 6E 6F 6E 09
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00B78 C.AAO: .ASCII \cluster\<0>
00B80 C.AAP: .ASCII \cylinder\
00B88 C.AAQ: .ASCII \file_ID\<0>
00B90 C.AAR: .ASCII \file_name\<0><0><0>
00B9C C.AAS: .ASCII \logical\<0>
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00BAC C.AAU: .ASCII <9>\none\<0><0><0>
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00C4C C.ABH: .ASCII <9>\stream_LF\<0><0>
00C58 C.ABI: .ASCII <9>\undefined\<0><0>
00C64 C.ABJ: .ASCII <9>\variable\<0><0><0>
00C70 C.ABK: .ASCII <9>\VFC\
00C74 C.ABL: .ASCII <9>\bin2\<0><0><0>
00C7C C.ABM: .ASCII <9>\bin4\<0><0><0>
00C84 C.ABN: .ASCII <9>\bin8\<0><0><0>
00C8C C.ABO: .ASCII <9>\decimal\
00C94 C.ABP: .ASCII <9>\int2\<0><0><0>
00C9C C.ABQ: .ASCII <9>\int4\<0><0><0>
00CA4 C.ABR: .ASCII <9>\int8\<0><0><0>
00CAC C.ABS: .ASCII <9>\string\<0>
00CB4 C.ABT: .ASCII <9>\IAS\
00CB8 C.ABU: .ASCII <9>\RSTS/E\<0>
00CC0 C.ABV: .ASCII <9>\RSX-11M\
00CC8 C.ABW: .ASCII <9>\RSX-11M-PLUS\<0><0><0>
00CD6
00CDB C.ABX: .ASCII <9>\RT-11\<0><0>
00CE0 C.ABY: .ASCII <9>\TRAX-11\
00CE8 C.ABZ: .ASCII <9>\VAX/VMS\
00CF0 C.ACA: .ASCII <9>\yes\
00CF4 C.ACB: .ASCII <9>\no\<0>
00CF8 C.ACC: .ASCII <9>\'\<0><0>
00CFC C.ACD: .LONG ^XA6,0,0,0,0,0,0,0
00D10
00D1C C.ACE: .ASCII <9>\(\<0><0>
00D20 C.ACF: .ASCII \! !\<0><0><0>
00D28 C.ACG: .ASCII <9>\(system:\<0><0><0>
00D34 C.ACH: .ASCII \, owner:\
00D3C C.ACI: .ASCII \, group:\
00D44 C.ACJ: .ASCII \, world:\
```

			00000	CHECK_QUOTES:		: 0137	
		007C	00000	WORD	"M(R2,R3,R4,R5,R6)"		
5E		08	00002	SUBL2	#8,SP		
50		22	00005	MOVW	#34,QUOTES	: 0149	
	04	BC	00008	TSTW	@4(R12)	: 0154	
		03	0000B	BNEQ	+3		
		0000V	0000D	BRW	298		
51	04	AC	00010	MOVL	4(R12),R1	: 0161	
50	04	B1	00014	CMPB	@4(R1),QUOTES		
		00V	00018	BNEQ	38		
51	04	BC	0001A	MOVZWL	@4(R12),R1		
52	04	AC	0001E	MOVL	4(R12),R2		
52	04	A2	00022	MOVL	4(R2),R2		
50	FF	A241	00026	CMPB	-1(R2)[R1],QUOTES		
		03	0002B	BNEQ	+3		
		0000V	0002D	BRW	308		
	04	AC	00030	38:	MOVL	4(R12),R2	
00000000G	52	04	00034	CMPB	@4(R2),APOSTROPHE		
EF		00V	0003C	BNEQ	58		
	04	BC	0003E	MOVZWL	@4(R12),R2		
52	04	AC	00042	MOVL	4(R12),R1		
51	04	A1	00046	MOVL	4(R1),R1		
00000000G	51	FF	0004A	CMPB	-1(R1)[R2],APOSTROPHE		
EF		03	00053	BNEQ	+3		
		0000V	00055	BRW	308		
		51	00058	58:	CLRB	QUOTE_FOUND	: 0180
		52	0005A	CLRB	APOST_FOUND	: 0181	
53		01	0005C	MOVL	#1,R3	: 0183	
54	04	BC	0005F	MOVZWL	@4(R12),R4		
54		53	00063	CMPL	R3,R4		
		00V	00066	BGTR	118		
55		53	00068	68:	MOVL	R3,INDEX	
56	04	AC	0006B	MOVL	4(R12),R6	: 0187	
56	04	A6	0006F	MOVL	4(R6),R6		
50	FF	A645	00073	CMPB	-1(R6)[INDEX],QUOTES		
		00V	00078	BNEQ	88		
51		01	0007A	MOVW	#1,QUOTE_FOUND	: 0189	
56	04	AC	0007D	88:	MOVL	4(R12),R5	: 0191
56	04	A6	00081	MOVL	4(R6),R6		
00000000G	56	FF	00085	CMPB	-1(R6)[INDEX],APOSTROPHE		
EF		00V	0008E	BNEQ	108		
		01	00090	MOVW	#1,APOST_FOUND	: 0193	
D1	52		00090				
	53		00093	108:	AOBLEQ	R4,R3,68	
	00V		00097	118:	BLBC	QUOTE_FOUND,248	: 0202
	00V		0009A		BLBC	APOST_FOUND,228	: 0206
52	04	BC	0009D	MOVZWL	@4(R12),SCAN_INDEX	: 0210	
51	04	AC	000A1	148:	MOVL	4(R12),R1	: 0214
51	04	A1	000A5	MOVL	4(R1),R1		
50	FF	A142	000A9	CMPB	-1(R1)[SCAN_INDEX],QUOTES		
		00V	000AE	BNEQ	208		
51	04	BC	000B0	MOVZWL	@4(R12),R1	: 0218	
53		52	000B4	MOVL	SCAN_INDEX,R3		
53		51	000B7	CMPL	R1,R3		
		00V	000BA	BLSS	178		
55		51	000BC	168:	MOVL	R1,INDEX	
54	04	AC	000BF	MOVL	4(R12),R4	: 0220	

Generated Code			
56	04	AC	D0 000C3
56	04	A6	D0 000C7
04 B445	FF	A645	90 000CB
8F		53	F1 000D2
00FE 8F	04	BC	B1 000DC 17%:
		00V	1E 000E2
	04	BC	B6 000E4
		52	D7 000E7 20%:
01		52	D1 000E9
		B3	18 000EC
52		50	90 000EE
		00V	11 000F1
52 00000000G		EF	90 000F3 22%:
		00V	11 000FA
52		50	90 000FC 24%:
50	04	BC	3C 000FF 25%:
		00V	15 00103
55		50	D0 00105 26%:
51	04	AC	D0 00108
53	04	AC	D0 0010C
53	04	A3	D0 00110
04 B145	FF	A345	90 00114
E7		50	F5 0011B
04 BC		02	A0 0011E 27%:
50	04	AC	D0 00122
04 B0		52	90 00126
50	04	BC	3C 0012A
55	04	AC	D0 0012E
55	04	A5	D0 00132
FF A540		52	90 00136
		00V	11 0013B
F8 AD 010E0002		BF	D0 0013D 29%:
FC AD 00000000G		EF	9E 00145
		F8	AD 0014D
		04	AC DD 00150
00000000G EF		02	FB 00153
		04	0015A 30%:
			RET

; Routine Size: 347 bytes. Routine Base: \$CODE + 00D4C

5C 00000000G EF	0004 00000	SHOW_PRIMARY:	: 0328
52 19 AC	D0 00002	.WORD	: 0335
50 52 9A	90 00009	NOVL DEF CURRENT,R12	: 0342
7E 00000000GEF	40 9A 0000D	NOVB 25(R12),TEMP_PRI	: 0347
7E FFFFFF138 EF	9A 00010	NOVZBL TEMP_PRI,R0	
00000000G EF	9A 00018	NOVZBL PRIMARY_WIDTH[R0],-(SP)	
	9F 0001B	NOVZBL TEMP_PRI,-(SP)	
	9F 00021	PUSHAB C.AAX	
00000000G EF	04 FB 00027	PUSHAB FDL_DEST	
50 52 9A	0002E	CALLS #4,PASSWRITE_ENUMERATED	: 0352
10 50 D1	00031	NOVZBL TEMP_PRI,R0	
00VFF FFF1F3 EF	1E 00034	CMPL R0,#T6	
	50 E1 00036	BGEQU 3\$	
	01 DD 0003E	BBC R0,C.AAB,3\$: 0354
	20 DD 00040	PUSHL #1	
	EF 9F 00042	PUSHL #32	
		PUSHAB FDL_DEST	

Generated Code			
00000000G	EF		03 FB 0004B
		1A	AC 9F 0004F
00000000G	EF		01 FB 00052
			50 DD 00059
		1A	AC DD 0005B
00000000G	EF	00000000G	EF 9F 0005E
	52		03 1C 00064
	10		52 9A 0006B 38:
00VFFFFFF1B8	EF		52 D1 0006E
			00V 1E 00071
			52 E1 00073
0D4C	CF	11	AC 9F 0007B
			01 FB 0007E
		11	AC B5 00083
			00V 15 00086
			01 DD 00088
			09 DD 0008A
00000000G	EF	00000000G	EF 9F 0008C
	7E	11	03 FB 00092
			AC 3C 00099
		15	00 DD 0009D
			BC 9F 0009F
		000000FF	8F DD 000A2
		00000000G	EF 9F 000AB
00000000G	EF		05 FB 000AE
			04 000B5 78:
			CALLS #3,PASSWRITE_CHAR
			PUSHAB 26(R12)
			CALLS #1,NUM_LEN
			PUSHL R0
			PUSHL 26(R12)
			PUSHAB FDL_DEST
			CALLS #3,PASSWRITE_INTEGER
			MOVZBL TEMP_PRI,R2 : 0359
			CMPL R2,#T6
			BGEQU 78
			BBC R2,C.AAC,78
			PUSHAB 17(R12) : 0363
			CALLS #1,CHECK_QUOTES
			TSTW 17(R12) : 0365
			BLEQ 78
			PUSHL #1 : 0367
			PUSHL #9
			PUSHAB FDL_DEST
			CALLS #3,PASSWRITE_CHAR
			MOVZWL 17(R12),-(SPT)
			PUSHL #0
			PUSHAB @21(R12)
			PUSHL #255
			PUSHAB FDL_DEST
			CALLS #5,PASSWRITE_STRING
			RET : 0374

; Routine Size: 182 bytes. Routine Base: \$CODE + 00EA7

Generated Code			
			00000 SHOW_SECONDARY: : 0421
		000C	00000 .WORD
	5C	00000000G	EF D0 00002
	52	1E	AC 90 00009
	50		52 9A 0000D
00000098	8F		50 D1 00010
			00V 1E 00017
03 FFFFF15E	EF		50 E1 00019
		0000V	31 00021
			01 DD 00024 28:
			09 DD 00026
		00000000G	EF 9F 00028
00000000G	EF		03 FB 0002E
	50		52 9A 00033
	53	00000000GEF	40 9E 00038
	7E		63 9A 00040
	7E		52 9A 00043
		FFrFF147	EF 9F 00046
		00000000G	EF 9F 0004C
00000000G	EF		04 FB 00052
	21		52 91 00059
		00V	12 0005C
00000100	8F	23	AC D1 0005E
			00V 1E 00066
00VFFFFFFB4E	EF	23	AC E0 00068
		FFFFFB68	EF 9F 00071 48:
			04 DD 00077
		00000000G	EF 9F 00079
			CALLS #4,PASSWRITE_ENUMERATED
			CMPL TEMP_SEC,#33 : 0449
			BNEQ 58
			CMPL 35(R12),#256
			BGEQU 48
			BBS 35(R12),C.AAF,58
			PUSHAB C.AAG : 0455
			PUSHL #4
			PUSHAB FDL_DEST

Generated Code			
00000000G	EF	03	FB 0007F
		0000V	31 00086
	08	63	91 00089 58:
		00V	1E 0008C
	FFFFFFB4F	EF	9F 0008E
		02	DD 00094
	00000000G	EF	9F 00096
00000000G	EF	03	FB 0009C
		0000V	31 000A3
	10	63	91 000A6 78:
		03	1F 000A9
		0000V	31 000AB
		01	DD 000AE
		09	DD 000B0
	00000000G	EF	9F 000B2
00000000G	EF	03	FB 000B8
		0000V	31 000BF
	85 8F	52	91 000C2 128:
		00V	12 000C6
	FFFFFFB19	EF	9F 000C8
		04	DD 000CE
	00000000G	EF	9F 000D0
00000000G	EF	03	FB 000D6
		01	DD 000DD
	1F	AC	DD 000DF
	00000000G	EF	9F 000E2
00000000G	EF	03	FB 000E8
	FFFFFFAF6	EF	9F 000EF
		08	DD 000F5
	00000000G	EF	9F 000F7
00000000G	EF	03	FB 000FD
	86 8F	52	91 00104 148:
		00V	12 00108
	FFFFFFAE3	EF	9F 0010A
		04	DD 00110
	00000000G	EF	9F 00112
00000000G	EF	03	FB 00118
		01	DD 0011F
	1F	AC	DD 00121
	00000000G	EF	9F 00124
00000000G	EF	03	FB 0012A
	FFFFFFAC0	EF	9F 00131
		0A	DD 00137
	00000000G	EF	9F 00139
00000000G	EF	03	FB 0013F
	87 8F	52	91 00146 168:
		00V	12 0014A
	FFFFFFAB1	EF	9F 0014C
		07	DD 00152
	00000000G	EF	9F 00154
00000000G	EF	03	FB 0015A
		04	00161 198:

CALLS	#3,PASSWRITE_STRING	
BRW	198	
CMPB	(R3),#8	: 0457
BGEQU	78	
PUSHAB	C,AAH	: 0459
PUSHL	#2	
PUSHAB	FDL_DEST	
CALLS	#3,PASSWRITE_STRING	
BRW	198	
CMPB	(R3),#16	: 0461
BLSSU	+3	
BRW	198	
PUSHL	#1	: 0463
PUSHL	#9	
PUSHAB	FDL_DEST	
CALLS	#3,PASSWRITE_CHAR	
BRW	198	
CMPB	TEMP_SEC,#-123	: 0474
BNEQ	148	
PUSHAB	C,AAI	: 0476
PUSHL	#4	
PUSHAB	FDL_DEST	
CALLS	#3,PASSWRITE_STRING	
PUSHL	#1	
PUSHL	31(R12)	
PUSHAB	FDL_DEST	
CALLS	#3,PASSWRITE_INTEGER	
PUSHAB	C,AAJ	
PUSHL	#8	
PUSHAB	FDL_DEST	
CALLS	#3,PASSWRITE_STRING	
CMPB	TEMP_SEC,#-122	: 0481
BNEQ	168	
PUSHAB	C,AAK	: 0483
PUSHL	#4	
PUSHAB	FDL_DEST	
CALLS	#3,PASSWRITE_STRING	
PUSHL	#1	
PUSHL	31(R12)	
PUSHAB	FDL_DEST	
CALLS	#3,PASSWRITE_INTEGER	
PUSHAB	C,AAL	
PUSHL	#10	
PUSHAB	FDL_DEST	
CALLS	#3,PASSWRITE_STRING	
CMPB	TEMP_SEC,#-121	: 0488
BNEQ	198	
PUSHAB	C,AAM	: 0490
PUSHL	#7	
PUSHAB	FDL_DEST	
CALLS	#3,PASSWRITE_STRING	
RET		: 0502

; Routine Size: 354 bytes, Routine Base: \$CODE + 00F5D

0000 00000 SHOW_QUALIFIER:
0000 00000 .WORD *M<>

: 0548

28	50	00000000G	EF	DO	00002	MOVL	DEF CURRENT,RO		
	00	23	AO	CF	00009	CASEL	35(RO),#0,#40		: 0555
			0000V		0000E	.DISPL	1\$		
			0000V		00010	.DISPL	2\$		
			0000V		00012	.DISPL	3\$		
			0000V		00014	.DISPL	4\$		
			0000V		00016	.DISPL	5\$		
			0000V		00018	.DISPL	6\$		
			0000V		0001A	.DISPL	8\$		
			0000V		0001C	.DISPL	7\$		
			0000V		0001E	.DISPL	8\$		
			0000V		00020	.DISPL	15\$		
			0000V		00022	.DISPL	16\$		
			0000V		00024	.DISPL	17\$		
			0000V		00026	.DISPL	22\$		
			0000V		00028	.DISPL	18\$		
			0000V		0002A	.DISPL	23\$		
			0000V		0002C	.DISPL	24\$		
			0000V		0002E	.DISPL	19\$		
			0000V		00030	.DISPL	21\$		
			0000V		00032	.DISPL	20\$		
			0000V		00034	.DISPL	12\$		
			0000V		00036	.DISPL	13\$		
			0000V		00038	.DISPL	14\$		
			0000V		0003A	.DISPL	33\$		
			0000V		0003C	.DISPL	34\$		
			0000V		0003E	.DISPL	35\$		
			0000V		00040	.DISPL	36\$		
			0000V		00042	.DISPL	37\$		
			0000V		00044	.DISPL	38\$		
			0000V		00046	.DISPL	39\$		
			0000V		00048	.DISPL	11\$		
			0000V		0004A	.DISPL	10\$		
			0000V		0004C	.DISPL	9\$		
			0052		0004E	.DISPL	82		
			0000V		00050	.DISPL	32\$		
			0000V		00052	.DISPL	29\$		
			0000V		00054	.DISPL	25\$		
			0000V		00056	.DISPL	30\$		
			0000V		00058	.DISPL	26\$		
			0000V		0005A	.DISPL	31\$		
			0000V		0005C	.DISPL	27\$		
			0000V		0005E	.DISPL	28\$		
			0000V	31	00060	BRW	40\$		
		FFFFFA40	EF	9F	00063	1\$: PUSHAB	C,AAN		: 0557
			0D	DD	00069	PUSHL	#13		
		00000000G	EF	9F	0006B	PUSHAB	FDL_DEST		
			03	FB	00071	CALLS	#3,PASSWRITE_STRING		
			0000V	31	00078	BRW	41\$		
		FFFFFA38	EF	9F	0007B	2\$: PUSHAB	C,AAO		: 0558
			07	DD	00081	PUSHL	#7		
		00000000G	EF	9F	00083	PUSHAB	FDL_DEST		
			03	FB	00089	CALLS	#3,PASSWRITE_STRING		
			0000V	31	00090	BRW	41\$		
		FFFFFA28	EF	9F	00093	3\$: PUSHAB	C,AAP		: 0559
			08	DD	00099	PUSHL	#8		
		00000000G	EF	9F	0009B	PUSHAB	FDL_DEST		

Generated Code						
00000000G	EF	03	FB	000A1	CALLS	#3, PASSWRITE_STRING
		0000V	31	000A8	BRW	41\$
	FFFFFFA18	EF	9F	000AB	4\$: PUSHAB	C, AAQ ; 0560
		07	DD	000B1	PUSHL	#7
00000000G	EF	03	FB	000B3	PUSHAB	FDL DEST
		0000V	31	000C0	CALLS	#3, PASSWRITE_STRING
	FFFFFFA08	EF	9F	000C3	5\$: BRW	41\$; 0561
		09	DD	000C9	PUSHAB	C, AAR
00000000G	EF	03	FB	000CB	PUSHL	#9
		0000V	31	000D1	PUSHAB	FDL DEST
	FFFFFF9FC	EF	9F	000DB	6\$: CALLS	#3, PASSWRITE_STRING ; 0562
		07	DD	000E1	BRW	41\$
00000000G	EF	03	FB	000E3	PUSHAB	C, AAS
		0000V	31	000E9	PUSHL	#7
	FFFFFF9EC	EF	9F	000F0	PUSHAB	FDL DEST
		07	DD	000F3	7\$: CALLS	#3, PASSWRITE_STRING ; 0563
		09	DD	000F9	BRW	41\$
00000000G	EF	03	FB	000FB	PUSHAB	C, AAT
		0000V	31	00101	PUSHL	#7
	FFFFFF9DC	EF	9F	0010B	PUSHAB	FDL DEST
		05	DD	00111	8\$: CALLS	#3, PASSWRITE_STRING ; 0565
00000000G	EF	03	FB	00113	BRW	41\$
		0000V	31	00119	PUSHAB	C, AAU
	FFFFFF9CC	EF	9F	00123	9\$: PUSHL	#5 ; 0566
		08	DD	00129	PUSHAB	FDL DEST
00000000G	EF	03	FB	0012B	CALLS	#3, PASSWRITE_STRING
		0000V	31	00131	BRW	41\$
	FFFFFF9BC	EF	9F	0013B	10\$: PUSHAB	C, AAV ; 0567
		09	DD	00141	PUSHL	#8
00000000G	EF	03	FB	00143	PUSHAB	FDL DEST
		0000V	31	00149	CALLS	#3, PASSWRITE_STRING
	FFFFFF9B0	EF	9F	00150	11\$: BRW	41\$; 0568
		08	DD	00153	PUSHAB	C, AAX
00000000G	EF	03	FB	00159	PUSHL	#11
		0000V	31	0015B	PUSHAB	FDL DEST
	FFFFFF9A4	EF	9F	00161	CALLS	#3, PASSWRITE_STRING
		14	DD	00168	12\$: BRW	41\$; 0569
00000000G	EF	03	FB	0016B	PUSHAB	C, AAY
		0000V	31	00171	PUSHL	#20
	FFFFFF9A0	EF	9F	00173	PUSHAB	FDL DEST
		13	DD	00177	CALLS	#3, PASSWRITE_STRING
00000000G	EF	03	FB	00179	BRW	41\$
		0000V	31	00180	13\$: PUSHAB	C, AAZ ; 0570
	FFFFFF99C	EF	9F	00183	PUSHL	#19
		11	DD	00189	PUSHAB	FDL DEST
00000000G	EF	03	FB	0018B	CALLS	#3, PASSWRITE_STRING
		0000V	31	00191	BRW	41\$
	FFFFFF990	EF	9F	00198	14\$: PUSHAB	C, ABA ; 0571
		11	DD	001A1	PUSHL	#17
00000000G	EF	03	FB	001A3	PUSHAB	FDL DEST
		0000V	31	001A9	CALLS	#3, PASSWRITE_STRING
	FFFFFF98C	EF	9F	001B0	BRW	41\$

	FFFFF998	EF	9F	001B3	15%:	PUSHAB	C.ABB	: 0572
		10	DD	001B9		PUSHL	#16	
00000000G	00000000G	EF	9F	001BB		PUSHAB	FDL DEST	
		03	FB	001C1		CALLS	#3, PASSWRITE_STRING	
		0000V	31	001C8		BRW	41\$	
	FFFFF990	EF	9F	001CB	16%:	PUSHAB	C.ABC	: 0573
		08	DD	001D1		PUSHL	#8	
00000000G	00000000G	EF	9F	001D3		PUSHAB	FDL DEST	
		03	FB	001D9		CALLS	#3, PASSWRITE_STRING	
		0000V	31	001E0		BRW	41\$	
	FFFFF980	EF	9F	001E3	17%:	PUSHAB	C.ABD	: 0574
		06	DD	001E9		PUSHL	#6	
00000000G	00000000G	EF	9F	001EB		PUSHAB	FDL DEST	
		03	FB	001F1		CALLS	#3, PASSWRITE_STRING	
		0000V	31	001F8		BRW	41\$	
	FFFFF970	EF	9F	001FB	18%:	PUSHAB	C.ABE	: 0575
		06	DD	00201		PUSHL	#6	
00000000G	00000000G	EF	9F	00203		PUSHAB	FDL DEST	
		03	FB	00209		CALLS	#3, PASSWRITE_STRING	
		0000V	31	00210		BRW	41\$	
	FFFFF960	EF	9F	00213	19%:	PUSHAB	C.ABF	: 0576
		07	DD	00219		PUSHL	#7	
00000000G	00000000G	EF	9F	0021B		PUSHAB	FDL DEST	
		03	FB	00221		CALLS	#3, PASSWRITE_STRING	
		0000V	31	00228		BRW	41\$	
	FFFFF950	EF	9F	0022B	20%:	PUSHAB	C.ABG	: 0577
		0A	DD	00231		PUSHL	#10	
00000000G	00000000G	EF	9F	00233		PUSHAB	FDL DEST	
		03	FB	00239		CALLS	#3, PASSWRITE_STRING	
		0000V	31	00240		BRW	41\$	
	FFFFF944	EF	9F	00243	21%:	PUSHAB	C.ABH	: 0578
		0A	DD	00249		PUSHL	#10	
00000000G	00000000G	EF	9F	0024B		PUSHAB	FDL DEST	
		03	FB	00251		CALLS	#3, PASSWRITE_STRING	
		0000V	31	00258		BRW	41\$	
	FFFFF938	EF	9F	0025B	22%:	PUSHAB	C.ABI	: 0579
		0A	DD	00261		PUSHL	#10	
00000000G	00000000G	EF	9F	00263		PUSHAB	FDL DEST	
		03	FB	00269		CALLS	#3, PASSWRITE_STRING	
		0000V	31	00270		BRW	41\$	
	FFFFF92C	EF	9F	00273	23%:	PUSHAB	C.ABJ	: 0580
		09	DD	00279		PUSHL	#9	
00000000G	00000000G	EF	9F	0027B		PUSHAB	FDL DEST	
		03	FB	00281		CALLS	#3, PASSWRITE_STRING	
		0000V	31	00288		BRW	41\$	
	FFFFF920	EF	9F	0028B	24%:	PUSHAB	C.ABK	: 0581
		04	DD	00291		PUSHL	#4	
00000000G	00000000G	EF	9F	00293		PUSHAB	FDL DEST	
		03	FB	00299		CALLS	#3, PASSWRITE_STRING	
		0000V	31	002A0		BRW	41\$	
	FFFFF90C	EF	9F	002A3	25%:	PUSHAB	C.ABL	: 0582
		05	DD	002A9		PUSHL	#5	
00000000G	00000000G	EF	9F	002AB		PUSHAB	FDL DEST	
		03	FB	002B1		CALLS	#3, PASSWRITE_STRING	
		0000V	31	002B8		BRW	41\$	
	FFFFF8FC	EF	9F	002BB	26%:	PUSHAB	C.ABM	: 0583
		05	DD	002C1		PUSHL	#5	

Generated Code			
00000000G	EF	00000000G	EF 9F 002C3
			03 FB 002C9
		0000V	31 002D0
		FFFFF8EC	EF 9F 002D3 27%:
			05 DD 002D9
00000000G	EF	00000000G	EF 9F 002DB
			03 FB 002E1
		0000V	31 002E8
		FFFFF8DC	EF 9F 002EB 28%:
			0B DD 002F1
00000000G	EF	00000000G	EF 9F 002F3
			03 FB 002F9
		0000V	31 00300
		FFFFF8CC	EF 9F 00303 29%:
			05 DD 00309
00000000G	EF	00000000G	EF 9F 0030B
			03 FB 00311
		0000V	31 00318
		FFFFF8BC	EF 9F 0031B 30%:
			05 DD 00321
00000000G	EF	00000000G	EF 9F 00323
			03 FB 00329
		0000V	31 00330
		FFFFF8AC	EF 9F 00333 31%:
			05 DD 00339
00000000G	EF	00000000G	EF 9F 0033B
			03 FB 00341
		0000V	31 00348
		FFFFF89C	EF 9F 0034B 32%:
			07 DD 00351
00000000G	EF	00000000G	EF 9F 00353
			03 FB 00359
		0000V	31 00360
		FFFFF88C	EF 9F 00363 33%:
			04 DD 00369
00000000G	EF	00000000G	EF 9F 0036B
			03 FB 00371
		0000V	31 00378
		FFFFF878	EF 9F 0037B 34%:
			07 DD 00381
00000000G	EF	00000000G	EF 9F 00383
			03 FB 00389
		00V	11 00390
		FFFFF869	EF 9F 00392 35%:
			08 DD 00398
00000000G	EF	00000000G	EF 9F 0039A
			03 FB 003A0
		00V	11 003A7
		FFFFF85A	EF 9F 003A9 36%:
			0D DD 003AF
00000000G	EF	00000000G	EF 9F 003B1
			03 FB 003B7
		00V	11 003BE
		FFFFF853	EF 9F 003C0 37%:
			06 DD 003C6
00000000G	EF	00000000G	EF 9F 003CB
			03 FB 003CE

PUSHAB	FDL DEST
CALLS	#3, PASSWRITE_STRING
BRW	41\$
PUSHAB	C.ABN
PUSHL	#5
PUSHAB	FDL DEST
CALLS	#3, PASSWRITE_STRING
BRW	41\$
PUSHAB	C.ABO
PUSHL	#8
PUSHAB	FDL DEST
CALLS	#3, PASSWRITE_STRING
BRW	41\$
PUSHAB	C.ABP
PUSHL	#5
PUSHAB	FDL DEST
CALLS	#3, PASSWRITE_STRING
BRW	41\$
PUSHAB	C.ABQ
PUSHL	#5
PUSHAB	FDL DEST
CALLS	#3, PASSWRITE_STRING
BRW	41\$
PUSHAB	C.ABR
PUSHL	#5
PUSHAB	FDL DEST
CALLS	#3, PASSWRITE_STRING
BRW	41\$
PUSHAB	C.ABS
PUSHL	#7
PUSHAB	FDL DEST
CALLS	#3, PASSWRITE_STRING
BRW	41\$
PUSHAB	C.ABT
PUSHL	#4
PUSHAB	FDL DEST
CALLS	#3, PASSWRITE_STRING
BRW	41\$
PUSHAB	C.ABU
PUSHL	#7
PUSHAB	FDL DEST
CALLS	#3, PASSWRITE_STRING
BRW	41\$
PUSHAB	C.ABV
PUSHL	#8
PUSHAB	FDL DEST
CALLS	#3, PASSWRITE_STRING
BRW	41\$
PUSHAB	C.ABW
PUSHL	#13
PUSHAB	FDL DEST
CALLS	#3, PASSWRITE_STRING
BRW	41\$
PUSHAB	C.ABX
PUSHL	#6
PUSHAB	FDL DEST
CALLS	#3, PASSWRITE_STRING

		00V	11	003D5	BRB	41\$		
	FFFFF844	EF	9F	003D7	PUSHAB	C,ABY		: 0595
		08	DD	003DD	PUSHL	#8		
00000000G	00000000G	EF	9F	003DF	PUSHAB	FDL_DEST		
		03	FB	003E5	CALLS	#3,PASSWRITE_STRING		
	FFFFF835	00V	11	003EC	BRB	41\$		
		EF	9F	003EE	PUSHAB	C,ABZ		: 0596
		08	DD	003F4	PUSHL	#8		
00000000G	00000000G	EF	9F	003F6	PUSHAB	FDL_DEST		
		03	FB	003FC	CALLS	#3,PASSWRITE_STRING		
		00V	11	00403	BRB	41\$		
				00405				
			04	00405	41\$:	RET		: 0604

; Routine Size: 1030 bytes, Routine Base: \$CODE + 010BF

				00000	SHOW_CURRENT:			: 0656
			0004	00000	.WORD	^M<R2>		
			C2	00002	SUBL2	#20,SP		
			90	00005	MOVB	24(R12),PLUS_VALUE		
00V00000000G	5E	04	BC	00009	BBC	#0,DEST_IS_TERMINAL,2\$: 0688
	5C		00	00011	PUSHAB	SHIFT		: 0690
	EF		04	00017	PUSHL	#4		
			04	00019	PUSHAB	FDL_DEST		
00000000G	EF		03	0001F	CALLS	#3,PASSWRITE_STRING		
	50		00	00026	MOVL	DEF_CURRENT,R0		: 0695
	50		60	0002D	MOVZBL	(R0),R0		
02	00		50	00030	CASEB	R0,#0,#2		
			8F	00034	.DISPL	3\$		
			0000V	00036	.DISPL	9\$		
			0000V	00038	.DISPL	51\$		
			0000V	31	0003A	BRW	55\$	
	52	00000000G	EF	00	0003D	3\$:		
	CF		00	FB	00044	MOVL	DEF_CURRENT,R2	: 0699
	00V		5C	E9	00049	CALLS	#0,SHOW_PRIMARY	: 0706
		09	A2	B5	0004C	BLBC	PLUS_VALUE,8\$: 0711
			00V	15	0004F	TSTW	9(R2)	: 0716
			01	DD	00051	BLEQ	8\$	
			09	DD	00053	PUSHL	#1	: 0718
			09	DD	00053	PUSHL	#9	
00000000G	EF	00000000G	EF	9F	00055	PUSHAB	FDL_DEST	
	7E	09	03	FB	0005B	CALLS	#3,PASSWRITE_CHAR	
			A2	3C	00062	MOVZWL	9(R2),-(SP)	
		0D	00	DD	00066	PUSHL	#0	
			B2	9F	00068	PUSHAB	213(R2)	
		000000FF	8F	DD	0006B	PUSHL	#255	
00000000G	EF	00000000G	EF	9F	00071	PUSHAB	FDL_DEST	
			05	FB	00077	CALLS	#5,PASSWRITE_STRING	
00000000G	EF	00000000G	EF	9F	0007E	8\$:		: 0724
			01	FB	00084	PUSHAB	FDL_DEST	
			0000V	31	0008B	CALLS	#1,PASSWRITELN2	
	52	00000000G	EF	00	0008E	9\$:		
	CF		00	FB	00095	MOVL	DEF_CURRENT,R2	: 0730
	03		5C	E8	0009A	CALLS	#0,SHOW_SECONDARY	: 0737
			0000V	31	0009D	BLBS	PLUS_VALUE,++3	: 0742
	5C	1E	A2	9A	000A0	BRW	50\$	
	5C		04	C4	000A4	MOVZBL	30(R2),R12	: 0749
00V00000000G	EF		5C	E1	000A7	MULL2	#4,R12	
						BBC	R12,SEC_TYPE,15\$	

Generated Code

0D4C	CF	11	A2	9F	000AF	PUSHAB	17(R2)	: 0753
			01	FB	000B2	CALLS	#1,CHECK_QUOTES	
		11	A2	B5	000B7	TSTW	17(R2)	: 0755
			00V	15	000BA	BLEQ	15\$	
			01	DD	000BC	PUSHL	#1	: 0757
			09	DD	000BE	PUSHL	#9	
00000000G	EF	00000000G	EF	9F	000C0	PUSHAB	FDL_DEST	
	7E		03	FB	000C6	CALLS	#3,PASSWRITE_CHAR	
		11	A2	3C	000CD	MOVZWL	17(R2),-(SP)	
			00	DD	000D1	PUSHL	#0	
		15	B2	9F	000D3	PUSHAB	21(R2)	
		000000FF	8F	DD	000D6	PUSHL	#255	
00000000G	EF	00000000G	EF	9F	000DC	PUSHAB	FDL_DEST	
	50		05	FB	000E2	CALLS	#5,PASSWRITE_STRING	
	50	1E	A2	9A	000E9	MOVZBL	30(R2),R0	: 0765
	50		04	C4	000ED	MULL2	#4,R0	
00V00000000G	EF		02	C0	000F0	ADDL2	#2,R0	
10BF	CF		50	E1	000F3	BBC	R0,SEC_TYPE,17\$	
	50		00	FB	000FB	CALLS	#0,SHOW_QUALIFIER	: 0767
	50	1E	A2	9A	00100	MOVZBL	30(R2),R0	: 0772
	50		04	C4	00104	MULL2	#4,R0	
00V00000000G	EF		50	D6	00107	INCL	R0	
			50	E1	00109	BBC	R0,SEC_TYPE,19\$	
			01	DD	00111	PUSHL	#1	: 0777
			09	DD	00113	PUSHL	#9	
00000000G	EF	00000000G	EF	9F	00115	PUSHAB	FDL_DEST	
		27	03	FB	0011B	CALLS	#3,PASSWRITE_CHAR	
00000000G	EF		A2	9F	00122	PUSHAB	39(R2)	
			01	FB	00125	CALLS	#1,NUM_LEN	
		27	50	DD	0012C	PUSHL	R0	
		00000000G	A2	DD	0012E	PUSHL	39(R2)	
00000000G	EF		EF	9F	00131	PUSHAB	FDL_DEST	
	50	1E	03	FB	00137	CALLS	#3,PASSWRITE_INTEGER	
	50		A2	9A	0013E	MOVZBL	30(R2),R0	: 0782
	50		04	C4	00142	MULL2	#4,R0	
00V00000000G	EF		03	C0	00145	ADDL2	#3,R0	
00V	2B		50	E1	00148	BBC	R0,SEC_TYPE,24\$	
			00	E1	00150	BBC	#0,43(R2),22\$: 0784
		FFFFFF6D0	EF	9F	00155	PUSHAB	C.ACA	: 0786
			04	DD	0015B	PUSHL	#4	
00000000G	EF	00000000G	EF	9F	0015D	PUSHAB	FDL_DEST	
			03	FB	00163	CALLS	#3,PASSWRITE_STRING	
		FFFFFF6BD	00V	11	0016A	BRB	24\$	
			EF	9F	0016C	PUSHAB	C.ACB	: 0790
			03	DD	00172	PUSHL	#3	
00000000G	EF	00000000G	EF	9F	00174	PUSHAB	FDL_DEST	
	83		03	FB	0017A	CALLS	#3,PASSWRITE_STRING	
	8F	1E	A2	91	00181	CMPB	30(R2),#-125	: 0792
	59	1E	00V	13	00186	BEQL	26\$	
			A2	91	00188	CMPB	30(R2),#89	
			00V	12	0018D	BNEQ	31\$	
	20	27	A2	D1	0018F	CMPL	39(R2),#32	: 0800
			00V	19	00193	BLSS	28\$	
27	A2	7E	8F	07	00	ED	00195	
					00V	18	0019C	
					01	DD	0019E	28\$:
					09	DD	001A0	: 0806

Generated Code			
00000000G	EF	00000000G	EF 9F 001A2
		27	03 FB 001A8
00000000G	EF		01 9F 001AF
		27	50 DD 001B2
			A2 DD 001B9
00000000G	EF	00000000G	EF 9F 001BE
			03 FB 001C4
		FFFFF660	00V 11 001CB
			EF 9F 001CD
			02 DD 001D3
00000000G	EF	00000000G	EF 9F 001D5
			03 FB 001DB
		27	01 DD 001E2
			A2 DD 001E4
00000000G	EF	00000000G	EF 9F 001E7
			03 FB 001ED
			01 DD 001F4
		27	DD 001F6
			EF 9F 001F8
00000000G	EF	00000000G	03 FB 001FE
	21	1E	A2 91 00205
			03 13 00209
			00V 31 0020B
10BF	CF		00 FB 0020E
00000100	8F	23	A2 D1 00213
			00V 1E 0021B
00VFFFFFF611	EF	23	A2 E1 0021D
			01 DD 00226
			09 DD 00228
		00000000G	EF 9F 0022A
00000000G	EF		03 FB 00230
		27	A2 9F 00237
00000000G	EF		01 FB 0023A
			50 DD 00241
		27	A2 DD 00243
			EF 9F 00246
00000000G	EF	00000000G	03 FB 0024C
			00V 31 00253
01	03	23	A2 CF 00256
			00V 0025B
			00V 0025D
			00V 31 0025F
		FFFFF5EF	EF 9F 00262
			02 DD 00268
		00000000G	EF 9F 0026A
00000000G	EF		03 FB 00270
		34	A2 9F 00277
00000000G	EF		01 FB 0027A
			50 DD 00281
		34	A2 DD 00283
			EF 9F 00286
00000000G	EF	00000000G	03 FB 0028C
			01 DD 00293
			2C DD 00295
		00000000G	EF 9F 00297
00000000G	EF		03 FB 0029D

Generated Code	
PUSHAB	FDL DEST
CALLS	#3,PASSWRITE_CHAR
PUSHAB	39(R2)
CALLS	#1,NUM_LEN
PUSHL	R0
PUSHL	39(R2)
PUSHAB	FDL DEST
CALLS	#3,PASSWRITE_INTEGER
BRB	31\$
PUSHAB	C,ACC
PUSHL	#2
PUSHAB	FDL DEST
CALLS	#3,PASSWRITE_STRING
PUSHL	#1
PUSHL	39(R2)
PUSHAB	FDL DEST
CALLS	#3,PASSWRITE_CHAR
PUSHL	#1
PUSHL	#39
PUSHAB	FDL DEST
CALLS	#3,PASSWRITE_CHAR
CMPB	30(R2),#33
BEQL	.+3
BRW	42\$
CALLS	#0,SHOW_QUALIFIER
CMPB	35(R2),#256
BGEQU	34\$
BBC	35(R2),C.ACD,34\$
PUSHL	#1
PUSHL	#9
PUSHAB	FDL DEST
CALLS	#3,PASSWRITE_CHAR
PUSHAB	39(R2)
CALLS	#1,NUM_LEN
PUSHL	R0
PUSHL	39(R2)
PUSHAB	FDL DEST
CALLS	#3,PASSWRITE_INTEGER
BRW	42\$
CASEL	35(R2),#3,#1
.DISPL	35\$
.DISPL	36\$
BRW	39\$
PUSHAB	C,ACE
PUSHL	#2
PUSHAB	FDL DEST
CALLS	#3,PASSWRITE_STRING
PUSHAB	52(R2)
CALLS	#1,NUM_LEN
PUSHL	R0
PUSHL	52(R2)
PUSHAB	FDL DEST
CALLS	#3,PASSWRITE_INTEGER
PUSHL	#1
PUSHL	#44
PUSHAB	FDL DEST
CALLS	#3,PASSWRITE_CHAR

: 0810

: 0817

: 0821

: 0823

: 0830

: 0836

: 0842

Generated Code			
00000000G	EF	38	A2 9F 002A4
			01 FB 002A7
			50 DD 002AE
		38	A2 DD 002B0
00000000G	EF	00000000G	EF 9F 002B3
			03 FB 002B9
			01 DD 002C0
			2C DD 002C2
00000000G	EF	00000000G	EF 9F 002C4
			03 FB 002CA
00000000G	EF	3C	A2 9F 002D1
			01 FB 002D4
			50 DD 002DB
		3C	A2 DD 002DD
00000000G	EF	00000000G	EF 9F 002E0
			03 FB 002E6
			01 DD 002ED
			29 DD 002EF
00000000G	EF	00000000G	EF 9F 002F1
			03 FB 002F7
			00V 11 002FE
0D4C	CF	11	A2 9F 00300 36\$:
			01 FB 00303
		11	A2 B5 00308
			00V 15 0030B
			01 DD 0030D
			09 DD 0030F
00000000G	EF	00000000G	EF 9F 00311
	7E	11	A2 3C 0031E
			00 DD 00322
		15	B2 9F 00324
		000000FF	8F DD 00327
		00000000G	EF 9F 0032D
00000000G	EF		05 FB 00333
			00V 11 0033A
			0033C 39\$:
63	8F	1E	A2 91 0033C 42\$:
			00V 12 00341
00000000G	EF	2C	A2 D0 00343
		00000000G	EF 9F 0034B
F4	AD	010E00FF	8F D0 00351
F8	AD	00000000G	EF 9E 00359
		F4	AD 9F 00361
		FC	AD 9F 00364
EC	AD	010E0005	8F D0 00367
FO	AD	FFFFFF4E4	EF 9E 0036F
		EC	AD 9F 00377
00000000G	EF		04 FB 0037A
	7E	FC	AD 32 00381
			00 DD 00385
		00000000G	EF 9F 00387
		000000FF	8F DD 0038D
		00000000G	EF 9F 00393
00000000G	EF		05 FB 00399
65	8F	1E	A2 91 003A0 45\$:
			03 13 003A5
			PUSHAB 56(R2)
			CALLS #1,NUM_LEN
			PUSHL R0
			PUSHL 56(R2)
			PUSHAB FDL_DEST
			CALLS #3,PASSWRITE_INTEGER
			PUSHL #1
			PUSHL #44
			PUSHAB FDL_DEST
			CALLS #3,PASSWRITE_CHAR
			PUSHAB 60(R2)
			CALLS #1,NUM_LEN
			PUSHL R0
			PUSHL 60(R2)
			PUSHAB FDL_DEST
			CALLS #3,PASSWRITE_INTEGER
			PUSHL #1
			PUSHL #41
			PUSHAB FDL_DEST
			CALLS #3,PASSWRITE_CHAR
			BRB 42\$
			PUSHAB 17(R2) : 0853
			CALLS #1,CHECK_QUOTES
			TSTW 17(R2) : 0855
			BLEQ 42\$
			PUSHL #1 : 0857
			PUSHL #9
			PUSHAB FDL_DEST
			CALLS #3,PASSWRITE_CHAR
			MOVZWL 17(R2),-(SP)
			PUSHL #0
			PUSHAB 321(R2)
			PUSHL #255
			PUSHAB FDL_DEST
			CALLS #5,PASSWRITE_STRING
			BRB 42\$
			CMPB 30(R2),#99 : 0876
			BNEQ 45\$
			MOVL 44(R2),TEMP_INT2 : 0880
			PUSHAB TEMP_INT2 : 0881
			MOVL #17694975,-12(FP)
			MOVAB TEMP_STRING255,-8(FP)
			PUSHAB -12(FP)
			PUSHAB RETLEN
			MOVL #17694725,-20(FP)
			MOVAB C,ACF,-16(FP)
			PUSHAB -20(FP)
			CALLS #4,SYSSFAOL
			CVTWL RETLEN,-(SP) : 0882
			PUSHL #0
			PUSHAB TEMP_STRING255
			PUSHL #255
			PUSHAB FDL_DEST
			CALLS #5,PASSWRITE_STRING
			CMPB 30(R2),#101 : 0889
			BEQL .+3

		0000V	31	003A7	BRW	47\$	
	FFFFF4B3	EF	9F	003AA	PUSHAB	C,ACG	: 0893
		09	DD	003B0	PUSHL	#9	
00000000G	00000000G	EF	9F	003B2	PUSHAB	FDL_DEST	
	00000000	03	FB	003B8	CALLS	#3,PASSWRITE_STRING	
	30	8F	DF	003BF	PUSHAL	#0	: 0894
0000V	CF	A2	9F	003C5	PUSHAB	48(R2)	
	FFFFF49C	02	FB	003C8	CALLS	#2,SHOW_PROT	
		EF	9F	003CD	PUSHAB	C,ACH	: 0895
	00000000G	08	DD	003D3	PUSHL	#8	
00000000G	00000000G	EF	9F	003D5	PUSHAB	FDL_DEST	
	00000004	03	FB	003DB	CALLS	#3,PASSWRITE_STRING	
	30	8F	DF	003E2	PUSHAL	#4	: 0896
0000V	CF	A2	9F	003EB	PUSHAB	48(R2)	
	FFFFF481	02	FB	003EB	CALLS	#2,SHOW_PROT	
		EF	9F	003F0	PUSHAB	C,ACI	: 0897
	00000000G	08	DD	003F6	PUSHL	#8	
00000000G	00000000G	EF	9F	003F8	PUSHAB	FDL_DEST	
	00000008	03	FB	003FE	CALLS	#3,PASSWRITE_STRING	
	30	8F	DF	00405	PUSHAL	#8	: 0898
0000V	CF	A2	9F	00408	PUSHAB	48(R2)	
	FFFFF466	02	FB	0040E	CALLS	#2,SHOW_PROT	
		EF	9F	00413	PUSHAB	C,ACJ	: 0899
	00000000G	08	DD	00419	PUSHL	#8	
00000000G	00000000G	EF	9F	0041B	PUSHAB	FDL_DEST	
	0000000C	03	FB	00421	CALLS	#3,PASSWRITE_STRING	
	30	8F	DF	00428	PUSHAL	#12	: 0900
0000V	CF	A2	9F	0042E	PUSHAB	48(R2)	
		02	FB	00431	CALLS	#2,SHOW_PROT	
		01	DD	00436	PUSHL	#1	: 0901
	00000000G	29	DD	00438	PUSHL	#41	
00000000G	00000000G	EF	9F	0043A	PUSHAB	FDL_DEST	
	09	03	FB	00440	CALLS	#3,PASSWRITE_CHAR	
		A2	B5	00447	TSTW	9(R2)	: 0908
		00V	15	0044A	BLEQ	49\$	
		01	DD	0044C	PUSHL	#1	: 0910
		09	DD	0044E	PUSHL	#9	
00000000G	00000000G	EF	9F	00450	PUSHAB	FDL_DEST	
	7E	03	FB	00456	CALLS	#3,PASSWRITE_CHAR	
	09	A2	3C	0045D	MOVZWL	9(R2),-(SP)	
	0D	00	DD	00461	PUSHL	#0	
	000000FF	B2	9F	00463	PUSHAB	213(R2)	
	00000000G	8F	DD	00466	PUSHL	#255	
00000000G	00000000G	EF	9F	0046C	PUSHAB	FDL_DEST	
		05	FB	00472	CALLS	#5,PASSWRITE_STRING	
00000000G	00000000G	EF	9F	00479	PUSHAB	FDL_DEST	: 0916
		01	FB	0047F	CALLS	#1,PASSWRITELN2	
	50	00V	11	00486	BRB	56\$	
	09	EF	D0	00488	MOVL	DEF CURRENT,R0	: 0924
		A0	B5	0048F	TSTW	9(R0)	: 0931
	7E	00V	15	00492	BLEQ	56\$	
	09	A0	3C	00494	MOVZWL	9(R0),-(SP)	: 0933
	0D	00	DD	00498	PUSHL	#0	
	000000FF	B0	9F	0049A	PUSHAB	213(R0)	
	00000000G	8F	DD	0049D	PUSHL	#255	
00000000G	00000000G	EF	9F	004A3	PUSHAB	FDL_DEST	
		05	FB	004A9	CALLS	#5,PASSWRITE_STRING	

Generated Code								
00000000G	EF	00000000G	EF	9F	004B0	PUSHAB	FDL_DEST	
			01	FB	004B6	CALLS	#1,PASSWRITELN2	
			00V	11	004BD	BRB	56\$	
					004BF			
03 00000000G	EF	00000000G	EF	D6	004BF	55\$:	INCL	LINES_SHOWN : 0947
			00	E0	004C5	56\$:	BBS	#0_DEST_IS_TERMINAL,..+3 : 0949
			0000V	31	004CD		BRW	66\$
	50	00000000G	EF	D0	004D0		MOVL	DEF_CURRENT,R0 : 0953
		01	A0	D5	004D7		TSTL	1(R0)
			00V	13	004DA		BEQL	63\$
50 00000000G	EF	00000000G	EF	C3	004DC		SUBL3	LINES_SHOWN,LINES_PER_PAGE,R0 : 0955
	50		03	C2	004E8		SUBL2	#3,R0
	04		50	D1	004EB		CMPL	R0,#4
			00V	18	004EE		BGEQ	63\$
	50	00000000G	EF	D0	004F0		MOVL	DEF_CURRENT,R0
	52	00000000G	EF	D0	004F7		MOVL	DEF_CURRENT,R2
	52	01	A2	D0	004FE		MOVL	1(R2),R2
19	A2	19	A0	91	00502		CMPS	25(R0),25(R2)
			00V	12	00507		BNEQ	61\$
	52	00000000G	EF	D0	00509		MOVL	DEF_CURRENT,R2
	50	00000000G	EF	D0	00510		MOVL	DEF_CURRENT,R0
	50	01	A0	D0	00517		MOVL	1(R0),R0
1A	A0	1A	A2	D1	0051B		CMPL	26(R2),26(R0)
			00V	13	00520		BEQL	63\$
		00000000G	EF	D4	00522	61\$:	CLRL	LINES_SHOWN : 0969
		00000002	8F	DF	00528		PUSHAL	#2 : 0970
00000000G	EF		01	FB	0052E		CALLS	#1,CLEAR
50 00000000G	EF		03	C3	00535	63\$:	SUBL3	#3,LINES_PER_PAGE,R0 : 0974
	50	00000000G	EF	D1	0053D		CMPL	LINES_SHOWN,R0
			00V	19	00544		BLSS	66\$
		00000000G	EF	D4	00546		CLRL	LINES_SHOWN : 0984
		00000002	8F	DF	0054C		PUSHAL	#2 : 0985
00000000G	EF		01	FB	00552		CALLS	#1,CLEAR
			04	00559	66\$:	RET		: 0991

: Routine Size: 1370 bytes, Routine Base: \$CODE + 014C5

				00000	SHOW_PROT:			: 0661
			0004	00000	.WORD			
	52	04	BC	D0	00002	MOVL	#4(R12),PROTECTION	
	5C	08	BC	D0	00006	MOVL	#8(R12),FIELD_OFFSET	
00V	52		5C	E1	0000A	BBC	FIELD_OFFSET,PROTECTION,2\$: 0665
			01	DD	0000E	PUSHL	#1	: 0667
	7E	52	BF	9A	00010	MOVZBL	#82,-(SP)	
		00000000G	EF	9F	00014	PUSHAB	FDL_DEST	
			03	FB	0001A	CALLS	#3,PASSWRITE_CHAR	
	50	01	AC	9E	00021	2\$:	MOVAB	1(FIELD_OFFSET),R0 : 0669
00V	52		50	E1	00025	BBC	R0,PROTECTION,4\$	
			01	DD	00029	PUSHL	#1	: 0671
	7E	57	8F	9A	0002B	MOVZBL	#87,-(SP)	
		00000000G	EF	9F	0002F	PUSHAB	FDL_DEST	
			03	FB	00035	CALLS	#3,PASSWRITE_CHAR	
	50	02	AC	9E	0003C	4\$:	MOVAB	2(FIELD_OFFSET),R0 : 0673
00V	52		50	E1	00040	BBC	R0,PROTECTION,6\$	
			01	DD	00044	PUSHL	#1	: 0675
	7E	45	BF	9A	00046	MOVZBL	#69,-(SP)	
		00000000G	EF	9F	0004A	PUSHAB	FDL_DEST	

Generated Code

00000000G	EF		03	FB	00050	CALLS	#3,PASSWRITE_CHAR		
00V	5C	03	AC	9E	00057	6\$:	MOVAB	3(FIELD_OFFSET),R12	: 0677
	52		5C	E1	0005B		BBC	R12,PROTECTION,8\$	
	7E	44	01	DD	0005F		PUSHL	#1	: 0679
		00000000G	8F	9A	00061		MOVZBL	#68,-(SP)	
00000000G	EF		EF	9A	00065		PUSHAB	FDL_DEST	
			03	FB	0006B		CALLS	#3,PASSWRITE_CHAR	
				04	00072	8\$:	RET		: 0681

; Routine Size: 115 bytes, Routine Base: \$CODE + 01A1F

				00000	GENERATE_FDL:			: 1041	
00000000G	EF	00000000G	EF	0004	00000	WORD	*M<R2>		
	5C		00	D0	00002	MOVL	DEF_HEAD,DEF_CURRENT	: 1052	
		00000000G	EF	D2	0000D	MCOML	#0,PREV_PRINUM	: 1057	
		00000000G	EF	D4	00010	CLRL	LINES_SHOWN	: 1062	
			EF	D5	00016	TSTL	DEF_CURRENT	: 1067	
	50	00000000G	00V	13	0001C	BEQL	11\$		
			EF	D0	0001E	2\$:	MOVL	DEF_CURRENT,R0	: 1082
			5C	D5	00025	TSTL	PREV_PRINUM	: 1086	
	52	19	00V	18	00027	BGEQ	5\$		
	5C	1A	A0	90	00029	MOVB	25(R0),PREV_PRIMARY	: 1093	
			A0	D0	0002D	MOVL	26(R0),PREV_PRINUM	: 1094	
1A	A0		00V	11	00031	BRB	9\$		
			5C	D1	00033	5\$:	CMPL	PREV_PRINUM,26(R0)	: 1105
			00V	12	00037	BNEQ	7\$		
19	A0		52	91	00039	CMPB	PREV_PRIMARY,25(R0)		
			00V	13	0003D	BEQL	9\$		
	52	19	A0	90	0003F	7\$:	MOVB	25(R0),PREV_PRIMARY	: 1111
	5C	1A	A0	D0	00043	MOVL	26(R0),PREV_PRINUM	: 1112	
		00000000G	EF	9F	00047	PUSHAB	FDL_DEST	: 1117	
00000000G	EF		01	FB	0004D	CALLS	#1,PASSWRITELN2		
		00000000G	EF	D6	00054	INCL	LINES_SHOWN	: 1118	
		01	8F	9F	0005A	9\$:	PUSHAB	#1	: 1126
14C5	CF		01	FB	0005D	CALLS	#1,SHOW_CURRENT		
00000000G	EF		00	FB	00062	CALLS	#0,INCR_CURRENT	: 1127	
		00000000G	EF	D5	00069	TSTL	DEF_CURRENT		
			AD	12	0006F	BNEQ	2\$		
				04	00071	11\$:	RET	: 1133	

; Routine Size: 114 bytes, Routine Base: \$CODE + 01A92

				00000	VIEW_DEF:			: 1183	
		00000003	8F	DF	00002	WORD	*M<>		
00000000G	EF		01	FB	0000B	PUSHAL	#3	: 1190	
00000000G	EF		01	90	0000F	CALLS	#1,CLEAR		
		00V	AF	9F	00016	MOVB	#1,DEST_IS_TERMINAL	: 1196	
			19	DD	00019	PUSHAB	1\$: 1198	
		00000000G	EF	9F	0001B	PUSHL	#25		
00000000G	EF		03	FB	00021	PUSHAB	FDL_DEST		
		000000FC	8F	DD	0002B	1\$:	CALLS	#3,PASSCLOSE2	
			07	DD	0002E	PUSHL	#252	: 1199	
		00000000G	04	DD	00030	PUSHL	#7		
			EF	9F	00032	PUSHL	#4		
			0B	DD	0003B	PUSHAB	SY\$OUTPUT_NAME		
			01	DD	0003A	PUSHL	#11		
						PUSHL	#1		

Generated Code

00000000G	EF	00000000G	EF	9F	0003C	PUSHAB	FDL DEST		
			07	FB	00042	CALLS	#7,PASS\$OPEN2		
00000000G	EF	00000000G	EF	9F	00049	PUSHAB	FDL DEST		: 1200
1A92	CF		01	FB	0004F	CALLS	#1,PASS\$REWRITE2		
00000000G	EF	00000000G	00	FB	00056	CALLS	#0,GENERATE_FDL		: 1205
00V00000000G	EF		EF	9F	0005B	PUSHAB	FDL DEST		: 1210
			01	FB	00061	CALLS	#1,PASS\$CLOSE2		
	EF		00	E0	00068	BBS	#0,CONTROL ZEE_TYPED,4\$: 1215
		00000000G	EF	D5	00070	TSTL	LINES_SHOWN		
			00V	13	00076	BEQL	4\$		
		00000000G	EF	9F	00078	PUSHAB	PASS\$V OUTPUT		: 1219
00000000G	EF		01	FB	0007E	CALLS	#1,PASS\$WRITELN2		
		000000002	8F	DF	00085	PUSHAL	#2		: 1220
00000000G	EF		01	FB	0008B	CALLS	#1,CLEAR		: 1224
			04	00092	4\$:	RET			

: Routine Size: 147 bytes, Routine Base: \$CODE + 01B04

					003C	00000	.ENTRY	SHOW_PRIMARY_SECTION,*M<R2,R3,R4,R5>	: 1276
CO	AD	04	5E	CO	AE	9E	MOVAB	-64(SP),SP	
			BC	0040	8F	28	MOVCS	#64,24(R12),TEST	
		00000000G	EF	00000000G	EF	D4	CLRL	LINES_SHOWN	: 1286
					5C	94	MOVL	DEF_HEAD,DEF_CURRENT	: 1291
				00	8F	9F	CLRB	AT_PRIMARY	: 1292
				CO	AD	9F	PUSHAB	#0	: 1299
		00000000G	EF		02	FB	PUSHAB	TEST	
			00V		50	E9	CALLS	#2,CURRENT_EQ_TEST	
				01	8F	9F	BLBC	R0,3\$	
	14C5		CF		01	FB	PUSHAB	#1	: 1303
			5C		01	90	CALLS	#1,SHOW_CURRENT	
					00V	11	MOVB	#1,AT_PRIMARY	: 1304
					5C	E9	BRB	6\$	
		00000000G	EF		D4	00041	BLBC	AT_PRIMARY,6\$: 1312
					00	FB	CLRL	DEF_CURRENT	: 1314
00000000G	EF				D5	00047	CALLS	#0,INCR_CURRENT	: 1321
		00000000G	EF		D5	0004E	TSTL	DEF_CURRENT	
					CB	12	BNEQ	1\$	
		00000000G	EF		9F	00056	PUSHAB	FDL DEST	: 1325
00000000G	EF		01		FB	0005C	CALLS	#1,PASS\$WRITELN2	
					04	00063	RET		: 1327

: Routine Size: 100 bytes, Routine Base: \$CODE + 01B97

					0000	00000	.ENTRY	SHOW_ALL_PRIMARYES,*M<>	: 1379
		00000000G	EF		D4	00002	CLRL	LINES_SHOWN	: 1386
00000000G	EF	00000000G	EF		D0	0000B	MOVL	DEF_HEAD,DEF_CURRENT	: 1391
	50	00000000G	EF		D0	00013	MOVL	DEF_CURRENT,R0	: 1399
			60		95	0001A	TSTB	(R0)	
			00V		12	0001C	BNEQ	4\$	
	50	00000000G	EF		D0	0001E	MOVL	DEF_CURRENT,R0	
	09		19		A0	91	CMPB	25(R0),#9	
					00V	13	BEQL	4\$	
			01		8F	9F	PUSHAB	#1	: 1405
	14C5		CF		01	FB	CALLS	#1,SHOW_CURRENT	
00000000G	EF				00	FB	CALLS	#0,INCR_CURRENT	: 1410
		00000000G	EF		D5	0003A	TSTL	DEF_CURRENT	
			D1		12	00040	BNEQ	1\$	

00000000G EF 00000000G EF 9F 00042
00000000G EF 01 FB 00048
04 0004F

PUSHAB FDL DEST ; 1414
CALLS #1,PASS\$WRITELN2 ; 1416
RET

; Routine Size: 80 bytes, Routine Base: \$CODE + 01BFB

0004 00000
5E 04 C2 00002
5C 04 BC 90 00005
00000000G EF D4 00009
50 00000000G EF D0 0000F
52 60 90 00016
50 00000000G EF D0 00019
60 94 00020
FC AD 5C 90 00022
FC AD 9F 00026
14C5 CF 01 FB 00029
50 00000000G EF D0 0002E
OF 19 A0 91 00035
00V 13 00039
50 00000000G EF D0 0003B
60 01 90 00042
FC AD 5C 90 00045
FC AD 9F 00049
14C5 CF 01 FB 0004C 2\$:
50 00000000G EF D0 00051
60 52 90 00058
04 0005B

.ENTRY SHOW_CUR_PRI_SEC,*M<R2> ; 1468
SUBL2 #4,SP
MOVB #4(R12),PLUS_VALUE
CLRL LINES_SHOWN ; 1475
MOVL DEF_CURRENT,R0 ; 1482
MOVB (R0),SAVE_OBJECT_TYPE
MOVL DEF_CURRENT,R0 ; 1484
CLRB (R0)
MOVB PLUS_VALUE,-4(FP) ; 1485
PUSHAB -4(FP)
CALLS #1,SHOW_CURRENT
MOVL DEF_CURRENT,R0 ; 1487
CMPB 25(R0),#15
BEQL 2\$
MOVL DEF_CURRENT,R0 ; 1491
MOVB #1,(R0)
MOVB PLUS_VALUE,-4(FP) ; 1492
PUSHAB -4(FP)
CALLS #1,SHOW_CURRENT
MOVL DEF_CURRENT,R0 ; 1496
MOVB SAVE_OBJECT_TYPE,(R0) ; 1498
RET

; Routine Size: 92 bytes, Routine Base: \$CODE + 01C4B

01CA7

.END

EDFSHOW
V04-000

Pascal Compilation Statistics

J 2
16-Sep-1984 01:05:40
5-Sep-1984 13:38:00

VAX-11 Pascal V2.4-277
DISK\$VMSMASTER:[EDF.SRC]EDFSHOW.PAS;1 (22) Page 56

COMMAND QUALIFIERS

PASCAL/MACHINE/NODEBUG/NOCHECK/LIS=LIS\$:EDFSHOW/OBJ=OBJ\$:EDFSHOW MSRC\$:EDFSHOW

/CHECK=(NOBOUNDS, NOCASE_SELECTORS, NOOVERFLOW, NOPOINTERS, NOSUBRANGE)

/DEBUG=(NOSYMBOLS, NOTRACEBACK)

/ENVIRONMENT= \$255\$DUA28:[EDF.OBJ]EDFSHOW.PEN;1

/LIST= \$255\$DUA28:[EDF.LIS]EDFSHOW.LIS;1

/OBJECT= \$255\$DUA28:[EDF.OBJ]EDFSHOW.OBJ;1

/NOCROSS_REFERENCE /ERROR_LIMIT=30 /NOG_FLOATING /MACHINE_CODE /NOOLD_VERSION /OPTIMIZE /NOSTANDARD /WARNINGS

COMPILER INTERNAL TIMING

Phase	Faults	CPU Time	Elapsed Time
Initialization	83	00:00.4	00:02.5
Source Analysis	675	00:15.7	03:51.6
Source Listing	41	00:01.9	00:04.0
Tree Construction	185	00:01.0	00:02.1
Flow Analysis	39	00:00.3	00:00.5
Profit Analysis	30	00:00.5	00:01.1
Context Analysis	693	00:07.8	00:17.1
Name Packing	10	00:00.2	00:00.5
Code Selection	63	00:01.1	00:02.7
Final	361	00:06.2	00:16.8
TOTAL	2184	00:35.3	04:39.2

COMPILATION STATISTICS

CPU Time: 00:35.3 (2554 Lines/Minute)
Elapsed Time: 04:39.2
Page Faults: 2184
Compilation Complete

0127

AH-BT13A-SE
 VAX/VMS V4.0

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0128

AH-BT13A-SE
VAX/VMS V4.0

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